

## **NACC Derived Variables**

# **Description of NACC Derived Variables to be used in data analysis**

**FOR NACC DERIVED VARIABLES COMPUTED FROM UDS V2.0,  
NEUROPATHOLOGY, MILESTONES, AND MDS DATA**

**September 2012**

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This publication was funded by the National Institutes of Health through the National Institute on Aging (Cooperative Agreement U01 AG016976).

This publication modified April 25, 2013.

# Glossary

	<b>Variable name</b>	<b>Short descriptor</b>	<b>Data type</b>
1	<b>naccavst</b>	Total number of UDS visits made	numeric cross-sectional
2	<b>naccnvst</b>	Number of in-person UDS visits made	numeric cross-sectional
3	<b>naccdays</b>	Days from initial visit to most recent visit	numeric cross-sectional
4	<b>naccfdys</b>	Days from initial visit to each follow-up visit	numeric longitudinal
5	<b>naccwndw</b>	UDS visit window	numeric longitudinal
6a	<b>naccage</b>	UDS subject age at visit (years)	numeric longitudinal
6b	<b>naccmage</b>	MDS subject age at most recent evaluation (years)	numeric cross-sectional
7	<b>naccageb</b>	Subject age at initial visit (years)	numeric cross-sectional
8	<b>naccnihr</b>	Derived NIH race definitions	numeric cross-sectional
9	<b>naccfamh</b>	Indicator for first-degree family member with dementia	numeric cross-sectional
10	<b>naccstat</b>	Participation status at the ADC	numeric cross-sectional
11	<b>naccnurs</b>	Reported residence in a nursing home	numeric cross-sectional
12	<b>naccudsd</b>	Cognitive status at UDS visit	numeric longitudinal
13	<b>naccmdsd</b>	Cognitive status at last MDS evaluation	numeric cross-sectional
14	<b>naccimci</b>	Incident MCI	numeric cross-sectional
15	<b>naccidem</b>	Incident dementia	numeric cross-sectional
16	<b>naccnorm</b>	Subject had normal cognition at all visits to date	numeric cross-sectional
17	<b>naccdimp</b>	Dementia diagnosis followed by diagnosis of improved cognition	numeric cross-sectional
18a	<b>naccprad</b>	Dementia with primary probable AD (UDS, NINCDS/ARDA criteria)	numeric longitudinal
18b	<b>naccmad</b>	Dementia with primary probable AD (MDS, NINCDS/ARDA criteria)	numeric cross-sectional
19	<b>naccaged</b>	Age of onset of cognitive decline (years)	numeric cross-sectional
20	<b>naccdied</b>	Subject is known to be deceased	numeric cross-sectional
21	<b>naccapoe</b>	APOE genotype	numeric cross-sectional
22	<b>naccne4s</b>	Number of APOE e4 alleles	numeric cross-sectional
23	<b>naccadgc</b>	Indicator of whether or not genotype data is available at ADGC	numeric cross-sectional
24a	<b>naccacei</b>	Reported current use of an angiotensin converting enzyme (ACE) inhibitor	numeric longitudinal
24b	<b>naccaaas</b>	Reported current use of an antiadrenergic agent	numeric longitudinal
24c	<b>naccbeta</b>	Reported current use of a beta-adrenergic blocking agent (Beta-Blocker)	numeric longitudinal

	<b>Variable name</b>	<b>Short descriptor</b>	<b>Data type</b>
24d	<b>naccccbbs</b>	Reported current use of a calcium channel blocking agent	numeric longitudinal
24e	<b>naccdiur</b>	Reported current use of a diuretic	numeric longitudinal
24f	<b>naccvasd</b>	Reported current use of a vasodilator	numeric longitudinal
24g	<b>nacchtnc</b>	Reported current use of an antihypertensive combination therapy	numeric longitudinal
24h	<b>naccangi</b>	Reported current use of an angiotensin II inhibitor	numeric longitudinal
25	<b>nacclipl</b>	Reported current use of lipid lowering medication	numeric longitudinal
26	<b>naccnsd</b>	Reported current use of nonsteroidal anti-inflammatory medication	numeric longitudinal
27	<b>naccac</b>	Reported current use of an anticoagulant or antiplatelet agent	numeric longitudinal
28	<b>naccadep</b>	Reported current use of an antidepressant	numeric longitudinal
29	<b>naccapsy</b>	Reported current use of an antipsychotic agent	numeric longitudinal
30	<b>naccaanx</b>	Reported current use of an anxiolytic, sedative, or hypnotic agent	numeric longitudinal
31	<b>naccadmd</b>	Reported current use of a FDA-approved medication for Alzheimer's disease symptoms	numeric longitudinal
32	<b>naccpdmd</b>	Reported current use of an antiparkinson agent	numeric longitudinal
33	<b>nacccl1</b>	Form date discrepancy between UDS Form A1 and Form C1	numeric longitudinal
34	<b>naccamd</b>	Total number of medications at each visit	numeric longitudinal
35a	<b>naccemd</b>	Reported current use of estrogen hormone therapy	numeric longitudinal
35b	<b>naccpmd</b>	Reported current use of estrogen + progestin hormone therapy	numeric longitudinal
36	<b>naccdbmd</b>	Reported current use of a diabetes medication	numeric longitudinal
37	<b>naccdage</b>	Derived age at death	numeric cross-sectional
38	<b>naccint</b>	Time interval (days) between last visit and death	numeric cross-sectional
39	<b>naccniv</b>	HIV+ write-in on Form D1	numeric longitudinal
40	<b>naccmnd</b>	Motor neuron disease write-in on Form D1	numeric longitudinal
41	<b>naccpca</b>	Posterior cortical atrophy (PCA) write-in on Form D1	numeric longitudinal
42	<b>naccanc</b>	Cancer or tumor write-in on Form D1	numeric longitudinal
43	<b>naccmdss</b>	Subject's status in the Minimal Data Set (MDS) and Uniform Data Set (UDS)	numeric cross-sectional

## Description of NACC Derived Variables to be used in data analysis

1.	<b>Variable name</b>	<b>naccavst</b>
	<b>Short descriptor</b>	Total number of all UDS visits made
	<b>Data type</b>	Numeric cross-sectional
	<b>Allowable codes</b>	1 – 20
	<b>Description/derivation</b>	<p><b>UDS subjects:</b> This variable is calculated as the number of visits the subject made, regardless of the time between visits and whether the visit was in person or on the telephone. Subjects with <b>naccavst</b> = 1 have completed an initial visit only. Note that although this variable is listed for all visits, it does not change across visits; it is cross-sectional.</p> <p><b>MDS subjects:</b> <b>naccavst</b> is not calculated for MDS subjects as the MDS is not a longitudinal database.</p>
2.	<b>Variable name</b>	<b>naccnvst</b>
	<b>Short descriptor</b>	Number of in-person UDS visits made
	<b>Data type</b>	Numeric cross-sectional
	<b>Allowable codes</b>	1 – 20
	<b>Description/derivation</b>	<p><b>UDS subjects:</b> This variable is calculated as the number of in-person visits the subject made, regardless of the time between visits. Telephone visits are not included in the count. Subjects with <b>naccnvst</b> = 1 have completed an initial visit only. Note that although this variable is listed for all visits, it does not change across visits; it is cross-sectional.</p> <p><b>MDS subjects:</b> <b>naccnvst</b> is not calculated for MDS subjects as the MDS is not a longitudinal database.</p>
3.	<b>Variable name</b>	<b>naccdays</b>
	<b>Short descriptor</b>	Days from initial visit to most recent visit
	<b>Data type</b>	Numeric cross-sectional
	<b>Allowable codes</b>	0 – 3650
	<b>Description/derivation</b>	<p><b>UDS subjects:</b> This variable is calculated as the most recent visit date minus the initial visit date. All subjects completing the initial visit only will have <b>naccdays</b> = 0. Note that in order to obtain follow-up time in years, simply divide <b>naccdays</b> by 365.25. Also Note that although this variable is listed for all visits, it does not change across visits; it is cross-sectional.</p> <p><b>MDS subjects:</b> <b>naccdays</b> is not calculated for MDS subjects as the MDS is not a longitudinal database.</p>

4.	<b>Variable name</b>	<b>naccfdys</b>
	<b>Short descriptor</b>	Days from initial visit to each follow-up visit
	<b>Data type</b>	Numeric longitudinal
	<b>Allowable codes</b>	0–3650
	<b>Description/derivation</b>	<p><b>UDS subjects:</b> This variable is calculated as the follow-up visit date minus the initial visit date for every follow-up visit. All initial visits will have <b>naccfdys</b> = 0. Note that in order to obtain follow-up time in years, simply divide <b>naccfdys</b> by 365.25.</p> <p><b>MDS subjects:</b> <b>naccfdys</b> is not calculated for MDS subjects as the MDS is not a longitudinal database.</p>

5.	<b>Variable name</b>	<b>naccwndw</b>
	<b>Short descriptor</b>	UDS visit window
	<b>Data type</b>	Numeric longitudinal
	<b>Allowable codes</b>	0 = Initial visit or <180 days since initial visit. 1 = 180 ≤ days since initial visit ≤ 545 2 = 546 ≤ days since initial visit ≤ 910 3 = 911 ≤ days since initial visit ≤ 1275 4 = 1276 ≤ days since initial visit ≤ 1640 5 = 1641 ≤ days since initial visit ≤ 2005 6 = 2006 ≤ days since initial visit ≤ 2370 7 = 2371 ≤ days since initial visit ≤ 2735
	<b>Description/derivation</b>	<p><b>UDS subjects:</b> This variable is the UDS visit window in which each visit falls. The visit windows are defined by the number of days since the initial visit.</p> <p>Note that all initial visits will have <b>naccwndw</b> = 0. It is also possible for a subject to have more than one visit within a window and/or skip a visit window.</p> <p><b>MDS subjects:</b> <b>naccwndw</b> is not calculated for MDS subjects as the MDS is not a longitudinal database.</p>

6a.	<b>Variable name</b>	<b>naccage</b>
	<b>Short descriptor</b>	UDS subject age at visit (years)
	<b>Data type</b>	Numeric longitudinal
	<b>Allowable codes</b>	18–120
	<b>Description/derivation</b>	<p><b>UDS subjects:</b> Birth month and year are required elements in the UDS; however, birth day is not collected. To calculate age, birth day is set to 1 for all subjects and computed as visit date – birth date.</p>

6b.	<b>Variable name</b>	<b>naccmage</b>
	<b>Short descriptor</b>	MDS subject age at most recent evaluation (years)
	<b>Data type</b>	Numeric cross-sectional
	<b>Allowable codes</b>	18–120
	<b>Description/derivation</b>	<p><b>MDS subjects:</b> Birth month and day are NOT required elements in the MDS; however, birth year is collected. Birth day is set to '1' for subjects missing this data element, and if month is missing, 7 (July) is imputed. Age is not calculated for subjects who are missing birth year. In the MDS, age is computed as most recent evaluation date – birth date.</p>

7.	<b>Variable name</b>	<b>naccageb</b>
	<b>Short descriptor</b>	Subject age at the initial visit (years)
	<b>Data type</b>	Numeric cross-sectional
	<b>Allowable codes</b>	18–120
	<b>Description/derivation</b>	<p><b>UDS subjects:</b> Birth month and year are required elements in the UDS; however, birth day is not collected. To calculate <b>naccageb</b>, birth day is set to 1 for all subjects. Baseline age is then computed as initial visit date – birth date. Note that although this variable is listed for all visits, it does not change across visits; it is cross-sectional.</p> <p><b>MDS subjects:</b> Age at initial visit is not calculated for MDS subjects. Please see <b>naccmage</b> for age of MDS subjects at most recent evaluation.</p>

8.	<b>Variable name</b>	<b>naccnihr</b>
	<b>Short descriptor</b>	Derived NIH race definitions
	<b>Data type</b>	Numeric cross-sectional
	<b>Allowable codes</b>	1 = White 2 = Black or African American 3 = American Indian or Alaska Native 4 = Native Hawaiian or Pacific Islander 5 = Asian 6 = Multiracial 99 = Unknown or Ambiguous
	<b>Description/derivation</b>	<p><b>UDS subjects:</b> Some subjects have reported an other race that is not technically a race but rather an ethnicity or country of origin (e.g, Hispanic or Irish). We have created a derived race variable that is more consistent with the NIH guidelines for human subjects reporting. The categories are described as follows:</p> <p><b>naccnihr = 1</b> for subjects with RACE = 1 or RACE = 50 with a write-in response that is considered white or Caucasian race</p> <p><b>naccnihr = 2</b> for subjects with RACE = 2 or RACE = 50 with a write-in response that is considered black or African American</p> <p><b>naccnihr = 3</b> for subjects with RACE = 3 or RACE = 50 with a write-in response that is considered American Indian or Alaska Native</p> <p><b>naccnihr = 4</b> for subjects with RACE = 4 or RACE = 50 with a write-in response that is considered Native Hawaiian or Pacific Islander</p> <p><b>naccnihr = 5</b> for subjects with RACE = 5 or RACE = 50 with a write-in response that is considered Asian</p> <p><b>naccnihr = 6</b> for subjects reporting multiple races or with RACE = 50 and a write-in response indicating mixed race including, but not limited to, “multiracial”, “biracial”, and “mestizo”</p> <p><b>naccnihr = 99</b> for subjects with RACE = 99 or with RACE = 50 and a write-in response that cannot be classified as one of the categories without additional information, including but not limited to, “Hispanic”, “American”, and “Unknown”.</p> <p>Subjects reporting multiple races (Codes 1–5 for <b>race</b> and <b>racesec</b>, or for <b>race</b>, <b>racesec</b> and <b>raceter</b>) are coded to <b>naccnihr = 6</b> “Multi-racial”. For some multiracial subjects (<b>naccnihr = 6</b>), additional information on their primary, secondary, and/or tertiary race can be found by looking at the <b>race</b>, <b>racesec</b>, and <b>raceter</b> variables.</p> <p>Subjects reporting codes 1 through 5 for race, followed by <b>racesec = 50</b> or <b>raceter = 50</b>, are assigned the original primary race reported if the write-in does not indicate a different race, or is ambiguous. For example, a subject that reports <b>race = 1</b> (white)</p>

and then **racesecc** = 50 with a write-in of “Irish” will still have **naccnihr** = 1 and will not be considered multi-racial.

If write-ins for **racesecc** = 50 or **raceter** = 50 are indicative of additional race, then **naccnihr** = 6.

Additionally, **race** = 99 or ambiguous write-ins for primary race (**race** = 50) that are followed by codes 1 through 5 for **racesecc** or **raceter** are coded as **naccnihr** = 99.

**MDS subjects:** A derived race variable has not been created for MDS subjects.

9.	<b>Variable name</b>	<b>naccfamh</b>
	<b>Short descriptor</b>	Indicator for first degree family member with dementia
	<b>Data type</b>	Numeric cross-sectional
	<b>Allowable codes</b>	0 = No affected first degree family members reported with dementia 1 = At least one first degree family member reported with dementia 9 = No first-degree family history provided
	<b>Description/derivation</b>	<b>UDS subjects:</b> Subjects reporting a least one parent, sibling, or child with dementia at any visit meet the criteria for having a first degree family history of dementia ( <b>naccfamh</b> = 1). Subjects that have at least one A3 Form filled out and that do not report a first-degree relative with dementia at any visit are coded as not having a first-degree family member with a history of dementia ( <b>naccfamh</b> = 0). Subjects not completing the A3 Form during any visit are coded as missing ( <b>naccfamh</b> = 9), as are those with a submitted A3 form, but are missing all necessary data. Note that although this variable is listed for all visits, it does not change across visits; it is cross-sectional. <b>MDS subjects:</b> This datum is captured in the MDS variable <b>rldem</b> . If <b>rldem</b> = 1 then <b>naccfamh</b> = 1. If <b>rldem</b> = 2 then <b>naccfamh</b> = 0. If <b>rldem</b> = 8 or 9, then <b>naccfamh</b> = 9.

10.	<b>Variable name</b>	<b>naccstat</b>
	<b>Short descriptor</b>	Participation status at the ADC
	<b>Data type</b>	Numeric cross-sectional
	<b>Allowable codes</b>	0 = Not Active 1 = Active
	<b>Description/derivation</b>	<b>UDS subjects:</b> Subjects can be enrolled for initial visit only or for longitudinal follow-up. After the initial visit, subjects can discontinue participation for a number of reasons. A subject’s most recent status in the database can be dichotomized in the following way: <b>naccstat</b> = 0 if the subject is not under active UDS follow-up (e.g., the subject has died, was discontinued, is followed for autopsy only, or was enrolled as initial visit only). <b>naccstat</b> = 1 if the subject is under active follow-up and is expected to make additional visits, either in person or by telephone. Note that although this variable is listed for all visits, it does not change across visits; it is cross-sectional. Additionally, it does not capture change in participation status. For example, subjects who were discontinued but who have since rejoined are coded as active ( <b>naccstat</b> = 1), and subjects who were enrolled as IV-only ( <b>prespart</b> = 1), but made additional visits and are now actively followed are coded as active ( <b>naccstat</b> = 1). <b>MDS subjects:</b> <b>naccstat</b> is not calculated for MDS subjects as the MDS is not a longitudinal database.

11.	<b>Variable name</b>	<b>naccnurs</b>
	<b>Short descriptor</b>	Reported residence in a nursing home
	<b>Data type</b>	Numeric cross-sectional
	<b>Allowable codes</b>	0 = Did not report living in a nursing home/Unknown 1 = Lived in a nursing home
	<b>Description/derivation</b>	<p><b>UDS subjects:</b> Subjects with <b>residenc</b> = 3 or 4 and/or a Milestones Form reporting <b>nursehom</b> = 1 are indicated as living in a nursing home during at least one UDS visit, or previously as part of the MDS (<b>naccnurs</b> = 1). Otherwise, <b>naccnurs</b> = 0. Note that although this variable is listed for all visits, it does not change across visits; it is cross-sectional.</p> <p><b>MDS subjects:</b> Subjects with <b>residenc</b> = 3 or 4 and/or a Milestones Form reporting <b>nursehom</b> = 1 are indicated as living in a nursing home during observation (<b>naccnurs</b> = 1). Otherwise, <b>naccnurs</b> = 0.</p>

12.	<b>Variable name</b>	<b>naccudsd</b>
	<b>Short descriptor</b>	Cognitive status at UDS visit
	<b>Data type</b>	Numeric longitudinal
	<b>Allowable codes</b>	1 = Normal cognition 2 = Impaired not MCI 3 = MCI 4 = Dementia
	<b>Description/derivation</b>	<p><b>UDS subjects:</b> The subject's cognitive status is determined at every visit. Since there is a finite number of possible diagnoses, we have created a categorical variable to capture this datum.</p> <p><b>naccudsd</b> = 1 for normal cognition (<b>normcog</b> = 1)  <b>naccudsd</b> = 2 for impaired not MCI (<b>impnomci</b> = 1)  <b>naccudsd</b> = 3 for any MCI (<b>mciamem</b> = 1 or <b>mciaplus</b> = 1 or <b>mcinon1</b> = 1 or <b>mcinon2</b> = 1)  <b>naccudsd</b> = 4 for dementia (<b>demented</b> = 1)</p> <p><b>MDS subjects:</b> For MDS subjects, please see <b>naccmdsd</b> variable.</p>

13.	<b>Variable name</b>	<b>naccmdsd</b>
	<b>Short descriptor</b>	Cognitive status at last MDS evaluation
	<b>Data type</b>	Numeric cross-sectional
	<b>Allowable codes</b>	1 = Normal cognition 2 = Questionable dementia or cognitive impairment 3 = Dementia
	<b>Description/derivation</b>	<p><b>MDS subjects:</b> The subject's cognitive status is determined from the visit record and is coded as follows:</p> <p><b>naccmdsd</b> = 1 for normal cognition (<b>notdemci</b> = 1)  <b>naccmdsd</b> = 2 for questionable dementia or cognitive impairment (<b>notdemci</b> = 3)  <b>naccmdsd</b> = 3 for dementia (<b>clindem</b> = 1)</p> <p><b>UDS subjects:</b> for UDS-only subjects, please see <b>naccudsd</b> variable.</p>

14.	<b>Variable name</b>	<b>naccimci</b>
	<b>Short descriptor</b>	Incident MCI
	<b>Data type</b>	Numeric cross-sectional
	<b>Allowable codes</b>	0 = Did not progress to MCI 1 = Progressed to MCI 9 = Initial visit only, or started as MCI/Dementia, or progressed directly to dementia
	<b>Description/derivation</b>	<p><b>UDS subjects:</b> Subjects with normal cognition (<b>normcog</b> = 1) or impaired not MCI (<b>impnomci</b>) at the initial visit who have a follow-up visit with MCI (<b>mciamem</b> = 1, <b>mciaplus</b> = 1, <b>mcinon1</b> = 1, or <b>mcinon2</b> = 1) will have <b>naccimci</b> = 1. Subjects with normal cognition (<b>normcog</b> = 1) or impaired not MCI (<b>impnomci</b>) at every visit will have <b>naccimci</b> = 0. Those who revert from incident MCI to normal cognition will still have <b>naccimci</b> = 1. Subjects who have MCI or dementia at the initial visit will have <b>naccimci</b> = 9. Subjects who progress directly to dementia without an MCI diagnosis will also have <b>naccimci</b> = 9. Note that although this variable is listed for all visits, it does not change across visits; it is cross-sectional.</p> <p><b>MDS subjects:</b> <b>naccimci</b> is not calculated for MDS subjects as the MDS is not a longitudinal database.</p>
15.	<b>Variable name</b>	<b>naccidem</b>
	<b>Short descriptor</b>	Incident dementia
	<b>Data type</b>	Numeric cross-sectional
	<b>Allowable codes</b>	0 = Did not progress to dementia 1 = Progressed to dementia 9 = Initial visit only or started as demented
	<b>Description/derivation</b>	<p><b>UDS subjects:</b> Subjects with normal cognition (<b>normcog</b> = 1), impaired not MCI (<b>impnomci</b>), or MCI (<b>mcimem</b> = 1, <b>mciaplus</b> = 1, <b>mcinon1</b> = 1, or <b>mcinon2</b> = 1) at the initial visit who have a follow-up visit with dementia (<b>demented</b> = 1) will have <b>naccidem</b> = 1. Subjects who do not progress to dementia will have <b>naccidem</b> = 0. Those with incident dementia who revert to normal cognition or MCI will still have <b>naccidem</b> = 1. Subjects who have dementia at the initial visit will have <b>naccidem</b> = 9. Note that although this variable is listed for all visits, it does not change across visits; it is cross-sectional.</p> <p><b>MDS subjects:</b> <b>naccidem</b> is not calculated for MDS subjects as the MDS is not a longitudinal database.</p>
16.	<b>Variable name</b>	<b>naccnorm</b>
	<b>Short descriptor</b>	Subject had normal cognition at all visits to date
	<b>Data type</b>	Numeric cross-sectional
	<b>Allowable codes</b>	0 = Had a diagnosis other than normal cognition for at least one visit 1 = Had normal cognition at all visits
	<b>Description/derivation</b>	<p><b>UDS subjects:</b> This variable identifies subjects with normal cognition (<b>normcog</b> = 1) at all UDS visits. Subjects with at least one visit where the diagnosis was impaired not MCI (<b>impnomci</b> = 1), MCI (<b>mciamem</b> = 1, <b>mciaplus</b> = 1, <b>mcinon1</b> = 1, or <b>mcinon2</b> = 1), or dementia (<b>demented</b> = 1) will have <b>naccnorm</b> = 0.</p> <p><b>MDS subjects:</b> <b>naccnorm</b> is not calculated for MDS subjects as the MDS is not a longitudinal database.</p>

17.	<b>Variable name</b>	<b>naccdimp</b>
	<b>Short descriptor</b>	Dementia diagnosis followed by a non-demented diagnosis
	<b>Data type</b>	Numeric cross-sectional
	<b>Allowable codes</b>	0 = Did not have a non-demented diagnosis 1 = Had a non-demented diagnosis after dementia diagnosis 9 = Never diagnosed with dementia, or no follow-up after dementia diagnosis
	<b>Description/derivation</b>	<p><b>UDS subjects:</b> Subjects with dementia (<b>demented</b> = 1) who have a follow-up visit with a non-demented diagnosis are indicated by <b>naccdimp</b> = 1. Non-demented diagnoses include normal cognition (<b>normcog</b> = 1), impaired not MCI (<b>impnomci</b>), and MCI (<b>mciamem</b> = 1, <b>mciaplus</b> = 1, <b>mcinon1</b> = 1, or <b>mcinon2</b> = 1). Subjects who remain demented at all follow-up visits will have <b>naccdimp</b> = 0. Subjects with a non-demented diagnosis following a dementia diagnosis who then received another later diagnosis of dementia will still have <b>naccdimp</b> = 1. Subjects who are never diagnosed with dementia or who do not have a follow-up visit after their dementia diagnosis will have <b>naccdimp</b> = 9. Note that although this variable is listed for all visits, it does not change across visits; it is cross-sectional.</p> <p><b>MDS subjects:</b> <b>naccdimp</b> is not calculated for MDS subjects as the MDS is not a longitudinal database.</p>
18a.	<b>Variable name</b>	<b>naccprad</b>
	<b>Short descriptor</b>	UDS, dementia with primary probable AD (NINCDS/ARDA criteria)
	<b>Data type</b>	Numeric longitudinal
	<b>Allowable codes</b>	0 = Did not have dementia with probable AD 1 = Dementia with probable AD diagnosed
	<b>Description/derivation</b>	<p><b>UDS subjects:</b> For each visit, subjects with dementia (<b>demented</b> = 1) and probable AD as the primary clinical diagnosis (<b>probadif</b> = 1) will have <b>naccprad</b> = 1. Subjects who do not have a dementia diagnosis will have <b>naccprad</b> = 0, as will subjects with dementia but with another primary diagnosis.</p>
18b.	<b>Variable name</b>	<b>naccmad</b>
	<b>Short descriptor</b>	MDS, dementia with primary probable AD (NINCDS/ARDA criteria)
	<b>Data type</b>	Numeric cross-sectional
	<b>Allowable codes</b>	0 = Did not have dementia with probable AD 1 = Dementia with probable AD diagnosed
	<b>Description/derivation</b>	<p><b>MDS subjects:</b> Subjects with dementia (<b>clindem</b> = 1) and probable AD as the primary clinical diagnosis (<b>clidemdx</b> = 1) will have <b>naccprad</b> = 1. Subjects who do not have a dementia diagnosis will have <b>naccprad</b> = 0, as will subjects with dementia but with another primary diagnosis.</p>
19.	<b>Variable name</b>	<b>naccaged</b>
	<b>Short descriptor</b>	Age of onset of cognitive decline (years)
	<b>Data type</b>	Numeric cross-sectional
	<b>Allowable codes</b>	15–110 999 = Age of decline unknown 888 = N/A — no decline indicated –8 = Value varies over visits; consult with NACC if you need help deciding which value to use

<b>Description/derivation</b>	<p><b>UDS subjects:</b> This variable provides the age in years at which the subject began experiencing cognitive decline. The value for this variable is determined by the clinician after consulting with medical records, direct observation, and subject/informant report. Due to the way Form B9 was designed, it was possible for Centers to provide a different value for age of cognitive decline at different UDS visits (these subjects have been flagged with <b>naccaged</b> = -8). As such, Centers are currently examining the age of onset of decline data to provide NACC with a single value for each subject's age of onset of cognitive decline. In the meantime, NACC suggests that you use caution and examine how many subjects in your analytic sample have <b>naccaged</b> = -8 values. In the case that a valid value for <b>decage</b> is followed by a code of Unknown (999) or N/A (888), the valid value is used. When the clinician does not report decline at any visit, the subject receives a value of N/A (888). Please contact NACC for further guidance if needed.</p> <p><b>MDS subjects:</b> This variable was not collected for MDS subjects. However, please see the MDS <b>agedem</b> variable for the age at which the subject developed dementia symptoms.</p> <p><b>NOTE:</b> The <b>agedem</b> and <b>naccaged</b> variables do not capture the same information. Please consult NACC's MDS and UDS Coding Guidebooks and contact NACC for further guidance if needed.</p>
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20.	<b>Variable name</b>	<b>naccdied</b>
	<b>Short descriptor</b>	Subject is known to be deceased
	<b>Data type</b>	Numeric cross-sectional
	<b>Allowable codes</b>	0 = Not Deceased/Unknown 1 = Deceased
	<b>Description/derivation</b>	<p><b>UDS subjects:</b> Subjects with a Neuropathology Form and/or a Milestones Form reporting <b>deceased</b> = 1 are indicated as deceased (<b>naccdied</b> = 1). Otherwise, <b>naccdied</b> = 0.</p> <p><b>NOTE:</b> This variable includes subjects who were not under active follow-up at an ADC at the time of their death.</p> <p><b>MDS subjects:</b> Subjects with a Neuropathology form and/or <b>vitalst</b> = 2 are indicated as deceased (<b>naccdied</b> = 1). Otherwise, <b>naccdied</b> = 0.</p>

21.	<b>Variable name</b>	<b>naccapoe</b>
	<b>Short descriptor</b>	APOE genotype
	<b>Data type</b>	Numeric cross-sectional
	<b>Allowable codes</b>	1 = e3,e3 2 = e3,e4 3 = e3,e2 4 = e4,e4 5 = e4,e2 6 = e2,e2 9 = missing/unknown/not assessed
	<b>Description/derivation</b>	<p><b>UDS and MDS subjects:</b> APOE genotype is reported by the Centers on the Neuropathology Form and sent directly to NACC. APOE genotype is also reported from the Alzheimer's Disease Genetics Consortium (ADGC). In the rare case that the Center-reported genotype and the genotype reported by the ADGC are not the same, the genotype is set to missing for that subject. The code for APOE genotype is the same as <b>npapoe</b> on the Neuropathology Form.</p>

22.	<b>Variable name</b>	<b>naccne4s</b>
	<b>Short descriptor</b>	Number of APOE e4 alleles
	<b>Data type</b>	Numeric cross-sectional
	<b>Allowable codes</b>	0 = no e4 allele 1 = 1 copy of e4 allele 2 = 2 copies of e4 allele 9 = missing/unknown/not assessed
	<b>Description/derivation</b>	<b>UDS and MDS subjects:</b> APOE genotype is reported by the Centers on the Neuropathology Form and sent to NACC. APOE genotype is also reported by the Alzheimer's Disease Genetics Consortium (ADGC). In the rare case that the Center-reported genotype and the genotype reported by the ADGC are not the same, the genotype is set to missing for that subject. We used the code for APOE genotype (same as <b>npapoe</b> on the Neuropathology Form) to create a new variable indicating the number of e4 alleles.

23.	<b>Variable name</b>	<b>naccadgc</b>
	<b>Short descriptor</b>	Indicator of whether or not genotype data is available at ADGC
	<b>Data type</b>	Numeric cross-sectional
	<b>Allowable codes</b>	0 = Not available 1 = Available
	<b>Description/derivation</b>	<b>UDS and MDS subjects:</b> Genotype data is available from the Alzheimer's Disease Genetics Consortium (ADGC). The actual genotype data is only available through the ADGC, which requires a formal proposal and application before the data are distributed.

24a.	<b>Variable name</b>	<b>naccacei</b>
	<b>Short descriptor</b>	Reported current use of an angiotensin converting enzyme (ACE) inhibitor
	<b>Data type</b>	Numeric longitudinal
	<b>Allowable codes</b>	0 = Did not report use at visit 1 = Reported use at visit 9 = Did not complete medications form
	<b>Description/derivation</b>	<b>UDS subjects:</b> This variable indicates reported current use of an ACE inhibitor. The following medications are included in this category:

<b>Drug name</b>	<b>Example brand names</b>
captopril	Capoten, Captopril
enalapril	Enalapril Maleate, Enalaprilat, Vasotec
fosinopril	Fosinopril Sodium, Monopril
quinapril	Accupril, Quinapril Hydrochloride
ramipril	Altace, Ramipril
benazepril	Lotensin, Benazepril Hydrochloride
lisinopril	Lisinopril, Prinivil, Zestril
moexipril	Univasc, Moexipril Hydrochloride
trandolapril	Mavik, Trandolapril
perindopril	Aceon, Perindopril Erbumine

Medications variables were derived using Multum/Lexi-Comp© therapeutic drug categories.

**MDS subjects:** This variable is not available for MDS subjects as medication data were not collected before the introduction of the UDS.

24b.	<b>Variable name</b>	<b>naccaaas</b>																																			
	<b>Short descriptor</b>	Reported current use of an antiadrenergic agent																																			
	<b>Data type</b>	Numeric longitudinal																																			
	<b>Allowable codes</b>	0 = Did not report use at visit 1 = Reported use at visit 9 = Did not complete medications form																																			
	<b>Description/derivation</b>	<p><b>UDS subjects:</b> This variable indicates reported current use of an antiadrenergic agent, including both peripherally and centrally acting antiadrenergic agents. The following medications are included in this category:</p> <table border="1"> <thead> <tr> <th>Drug name</th> <th>Example brand names</th> </tr> </thead> <tbody> <tr> <td>guanethidine</td> <td>Ismelin</td> </tr> <tr> <td>prazosin</td> <td>Minipress, Prazosin Hydrochloride</td> </tr> <tr> <td>reserpine</td> <td>Reserpine</td> </tr> <tr> <td>terazosin</td> <td>Hytrin, Terazosin Hydrochloride</td> </tr> <tr> <td>guanadrel</td> <td>Hylorel</td> </tr> <tr> <td>doxazosin</td> <td>Cardura, Cardura XL, Doxazosin Mesylate</td> </tr> <tr> <td>mecamylamine</td> <td>Inversine</td> </tr> <tr> <td>rauwolfia serpentina</td> <td>Rauwolfemms, Rauwolfia 1X, Rauwolfia Serpentina</td> </tr> <tr> <td>deserpidine</td> <td>HarmonyI</td> </tr> <tr> <td>tamsulosin</td> <td>Flomax, Tamsulosin Hydrochloride</td> </tr> <tr> <td>alfuzosin</td> <td>Uroxatral, Alfuzosin Hydrochloride</td> </tr> <tr> <td>silodosin</td> <td>Rapaflo</td> </tr> <tr> <td>dutasteride-tamsulosin</td> <td>Jalyn</td> </tr> <tr> <td>cloNIDine</td> <td>Catapres, Catapres-TTS1-3, CloNIDine Hydrochloride, CloNIDine TTS1-3, Duraclon, Kapvay, Nexiclon XR</td> </tr> <tr> <td>guanabenz</td> <td>Wytensin, Guanabenz Acetate</td> </tr> <tr> <td>methyl dopa</td> <td>Aldomet, Aldomet Ester Hydrochloride, Methyl dopa, Methyl dopate</td> </tr> <tr> <td>guanFACINE</td> <td>Intuniv, GuanFACINE Hydrochloride, Tenex</td> </tr> </tbody> </table> <p>Medications variables were derived using Multum/Lexi-Comp® therapeutic drug categories.</p> <p><b>MDS subjects:</b> This variable is not available for MDS subjects as medication data were not collected before the introduction of the UDS.</p>	Drug name	Example brand names	guanethidine	Ismelin	prazosin	Minipress, Prazosin Hydrochloride	reserpine	Reserpine	terazosin	Hytrin, Terazosin Hydrochloride	guanadrel	Hylorel	doxazosin	Cardura, Cardura XL, Doxazosin Mesylate	mecamylamine	Inversine	rauwolfia serpentina	Rauwolfemms, Rauwolfia 1X, Rauwolfia Serpentina	deserpidine	HarmonyI	tamsulosin	Flomax, Tamsulosin Hydrochloride	alfuzosin	Uroxatral, Alfuzosin Hydrochloride	silodosin	Rapaflo	dutasteride-tamsulosin	Jalyn	cloNIDine	Catapres, Catapres-TTS1-3, CloNIDine Hydrochloride, CloNIDine TTS1-3, Duraclon, Kapvay, Nexiclon XR	guanabenz	Wytensin, Guanabenz Acetate	methyl dopa	Aldomet, Aldomet Ester Hydrochloride, Methyl dopa, Methyl dopate	guanFACINE
Drug name	Example brand names																																				
guanethidine	Ismelin																																				
prazosin	Minipress, Prazosin Hydrochloride																																				
reserpine	Reserpine																																				
terazosin	Hytrin, Terazosin Hydrochloride																																				
guanadrel	Hylorel																																				
doxazosin	Cardura, Cardura XL, Doxazosin Mesylate																																				
mecamylamine	Inversine																																				
rauwolfia serpentina	Rauwolfemms, Rauwolfia 1X, Rauwolfia Serpentina																																				
deserpidine	HarmonyI																																				
tamsulosin	Flomax, Tamsulosin Hydrochloride																																				
alfuzosin	Uroxatral, Alfuzosin Hydrochloride																																				
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cloNIDine	Catapres, Catapres-TTS1-3, CloNIDine Hydrochloride, CloNIDine TTS1-3, Duraclon, Kapvay, Nexiclon XR																																				
guanabenz	Wytensin, Guanabenz Acetate																																				
methyl dopa	Aldomet, Aldomet Ester Hydrochloride, Methyl dopa, Methyl dopate																																				
guanFACINE	Intuniv, GuanFACINE Hydrochloride, Tenex																																				

24c.	<b>Variable name</b>	<b>naccbeta</b>
	<b>Short descriptor</b>	Reported current use of a beta-adrenergic blocking agent (Beta-Blocker)
	<b>Data type</b>	Numeric longitudinal
	<b>Allowable codes</b>	0 = Did not report use at visit 1 = Reported use at visit 9 = Did not complete medications form
	<b>Description/derivation</b>	<p><b>UDS subjects:</b> This variable indicates reported current use of a beta-blocker medication, including both cardioselective and non-cardioselective beta-blockers. The following medications are included in this category:</p>

Drug name	Example brand names
atenolol	Atenolol, Senormin, Tenormin
acebutolol	Acebutolol Hydrochloride
metoprolol	Lopressor, Metoprolol Succinate ER, Metoprolol Tartrate, Toprol-XL
betaxolol	Betaxolol Hydrochloride, Kerlone
esmolol	Brevibloc
bisoprolol	Zebeta, Bisoprolol Fumarate
nebivolol	Bystolic
labetalol	Normodyne, Trandate, Labetalol Hydrochloride
nadolol	Corgard, Nadolol
propranolol	Inderal
pindolol	Pindolol, Viskin
timolol	Blocadren, Timolol Maleate
penbutolol	Levatol
sotalol	Betapace
carteolol	Cartrol
carvedilol	Carvedilol, Coreg, Coreg CR

Medications variables were derived using Multum/Lexi-Comp® therapeutic drug categories.

**MDS subjects:** This variable is not available for MDS subjects as medication data were not collected before the introduction of the UDS.

24d.	<b>Variable name</b>	<b>naccccb</b>																										
	<b>Short descriptor</b>	Reported current use of a calcium channel blocking agent																										
	<b>Data type</b>	Numeric longitudinal																										
	<b>Allowable codes</b>	0 = Did not report use at visit 1 = Reported use at visit 9 = Did not complete medications form																										
	<b>Description/derivation</b>	<b>UDS subjects:</b> This variable indicates reported current use of a calcium channel blocking medication. The following medications are included in this category: <table border="1" data-bbox="563 1302 1479 1774"> <thead> <tr> <th>Drug name</th> <th>Example brand names</th> </tr> </thead> <tbody> <tr> <td>diltiazem</td> <td>Cardizem</td> </tr> <tr> <td>verapamil</td> <td>Calan</td> </tr> <tr> <td>NIFEdipine</td> <td>Adalat, Adalat CC, Afeditab CR, NIFEdipine ER, Nifediac CC, Nifedical XL, Nifedipine, Procardia, Procardia XL</td> </tr> <tr> <td>felodipine</td> <td>Plendil, Felodipine ER</td> </tr> <tr> <td>isradipine</td> <td>Dynacirc, Dynacirc CR, Isradipine</td> </tr> <tr> <td>niCARDipine</td> <td>Cardene, Cardene IV, Cardene SR, niCARDipine Hydrochloride</td> </tr> <tr> <td>niMODipine</td> <td>NiMODipine, Nimotop</td> </tr> <tr> <td>bepidil</td> <td>Vascor</td> </tr> <tr> <td>amLODIPine</td> <td>Norvasc, AmLODIPine Besylate</td> </tr> <tr> <td>nisoldipine</td> <td>Nisoldipine, Sular</td> </tr> <tr> <td>mibefradil</td> <td>Posicor</td> </tr> <tr> <td>clevipine</td> <td>Cleviprex</td> </tr> </tbody> </table>	Drug name	Example brand names	diltiazem	Cardizem	verapamil	Calan	NIFEdipine	Adalat, Adalat CC, Afeditab CR, NIFEdipine ER, Nifediac CC, Nifedical XL, Nifedipine, Procardia, Procardia XL	felodipine	Plendil, Felodipine ER	isradipine	Dynacirc, Dynacirc CR, Isradipine	niCARDipine	Cardene, Cardene IV, Cardene SR, niCARDipine Hydrochloride	niMODipine	NiMODipine, Nimotop	bepidil	Vascor	amLODIPine	Norvasc, AmLODIPine Besylate	nisoldipine	Nisoldipine, Sular	mibefradil	Posicor	clevipine	Cleviprex
Drug name	Example brand names																											
diltiazem	Cardizem																											
verapamil	Calan																											
NIFEdipine	Adalat, Adalat CC, Afeditab CR, NIFEdipine ER, Nifediac CC, Nifedical XL, Nifedipine, Procardia, Procardia XL																											
felodipine	Plendil, Felodipine ER																											
isradipine	Dynacirc, Dynacirc CR, Isradipine																											
niCARDipine	Cardene, Cardene IV, Cardene SR, niCARDipine Hydrochloride																											
niMODipine	NiMODipine, Nimotop																											
bepidil	Vascor																											
amLODIPine	Norvasc, AmLODIPine Besylate																											
nisoldipine	Nisoldipine, Sular																											
mibefradil	Posicor																											
clevipine	Cleviprex																											

Medications variables were derived using Multum/Lexi-Comp® therapeutic drug categories.

**MDS subjects:** This variable is not available for MDS subjects as medication data were not collected before the introduction of the UDS.

24e.	<b>Variable name</b>	<b>naccdiur</b>
	<b>Short descriptor</b>	Reported current use of a diuretic
	<b>Data type</b>	Numeric longitudinal
	<b>Allowable codes</b>	0 = Did not report use at visit 1 = Reported use at visit 9 = Did not complete medications form

**Description/derivation** **UDS subjects:** This variable indicates reported current use of a diuretic medication and includes loop diuretics, potassium-sparing diuretics, thiazide and thiazide-like diuretics, carbonic anhydrase inhibitors, and miscellaneous diuretics. The following medications are included in this category:

<b>Drug name</b>	<b>Example brand names</b>
furosemide	Lasix, Diaqua-2, Furosemide, Lo-Aqua
bumetanide	Bumex, Bumetanide
ethacrynic acid	Edecrin, Edecrin Sodium
toremide	Demadex, Demadex I.V., Toremide
aMILoride	AMILoride Hydrochloride, AMILoride Hydrochloride Dihydrate, Midamor
spironolactone	Aldactone
triamterene	Dyrenium, Triamterene
chlorothiazide	Chlorothiazide, Chlorothiazide Sodium, Diuril, Diuril Sodium, Chlorthalidone, Hygroton, Thalitone
hydrochlorothiazide	Aquazide H, Carozide, Diaqua, Esidrix, Ezide, Hydro Par, HydroDIURIL, Hydrochlorothiazide, Loqua, Microzide, Oretic
indapamide	Lozol, Indapamide
metolazone	Metolazone, Mykrox, Zaroxolyn
bendroflumethiazide	Bendroflumethiazide, Naturetin-10, Naturetin-5
methyclothiazide	Aquatansen, Enduron, Methyclothiazide
benzthiazide	Exna
hydroflumethiazide	Diucardin, Saluron
trichlormethiazide	Aquacot, Diurese, Metahydrin, Naqua, Trichlormethiazide
polythiazide	Renese
acetaZOLAMIDE	AcetaZOLAMIDE
dichlorphenamide	Daranide
methazolamide	Glauctabs, MZM, Methazolamide, Neptazane
mannitol	Aridol, Mannitol, Osmitrol
pamabrom	Aqua-Ban, Aqua-Ban with Pamabrom, Diurex Aquagels, Diurex Water Capsules
urea	Ureaphil

Medications variables were derived using Multum/Lexi-Comp© therapeutic drug categories.

**MDS subjects:** This variable is not available for MDS subjects as medication data were not collected before the introduction of the UDS.

24f.	<b>Variable name</b>	<b>naccvasd</b>
	<b>Short descriptor</b>	Reported current use of a vasodilator
	<b>Data type</b>	Numeric longitudinal
	<b>Allowable codes</b>	0 = Did not report use at visit 1 = Reported use at visit 9 = Did not complete medications form

**Description/derivation**

**UDS subjects:** This variable indicates reported current use of a vasodilator. The following medications are included in this category:

Drug name	Example brand names
hydrALAZINE	Apresoline, HydrALAZINE Hydrochloride
minoxidil	Loniten, Minoxidil
nitroprusside	Sodium Nitroprusside
nitroglycerin	Minitran, Nitrek, Nitro TD Patch-A, Nitro-Bid, Nitro-Bid IV, Nitro-Dur, Nitro-Par, Nitro-Time, Nitrocot, Nitrodisc, Nitrogard, Nitroglycerin, Nitroglycerin ER, Nitroglycerin Patch, Nitroglycerin Transdermal System, Nitroglyn E-R, Nitrol, Nitrol Appli-Kit, Nitrolingual, Nitrolingual Duo Pack, Nitromist, Nitrong, Nitroquick, Nitrostat, Transderm-Nitro, Tridil
alprostadil	Alprostadil
nesiritide	Natrecor

Medications variables were derived using Multum/Lexi-Comp® therapeutic drug categories.

**MDS subjects:** This variable is not available for MDS subjects as medication data were not collected before the introduction of the UDS.

24g.

**Variable name****nachtnc****Short descriptor**

Reported current use of an antihypertensive combination therapy

**Data type**

Numeric longitudinal

**Allowable codes**

0 = Did not report use at visit  
 1 = Reported use at visit  
 9 = Did not complete medications form

**Description/derivation**

**UDS subjects:** This variable indicates reported current use of an antihypertensive combination medication. The following medications are included in this category:

Drug name	Example brand names
hydrochlorothiazide-triamterene	Dyazide, Hydrochlorothiazide-Triamterene, Maxzide, Maxzide-25
aMILoride-hydrochlorothiazide	Moduretic 5-50, AMILoride HCl-Hydrochlorothiazide
hydrochlorothiazide-spiroolactone	Aldactazide, Hydrochlorothiazide-Spiroolactone, Spiroolactone Plus
polythiazide-reserpine	Renese-R, Demi-Regroton, Regroton
chlorothiazide-reserpine	Chlorothiazide-Reserpine, Diupres-250, Diupres-500
hydrochlorothiazide-reserpine	Hydro-Reserp, Hydrochlorothiazide-Reserpine, Hydropres-25, Hydropres-50, Hydroserp, Hydroserpine, Hydroserpine #1, Salutensin, Mallopress, Salutensin-Demi
methyclothiazide-reserpine	Diutensen-R
reserpine-trichlormethiazide	Metatensin #2, Metatensin #4
bendroflumethiazide-rauwolfia serpentina	Bendroflumethiazide-Rauwolfia Serp, Flumezide, Rauzide, Rondameth
hydrALAZINE/hydrochlorothiazide/reserpine	Diuretic Ap-Es, HHR, HydrALAZINE HCl/Hydrochlorothiazid, Hydrap-ES, Marpres, Ser-Ap-Es, Serathide, Serpazide, Serpex, Tri-Hydroserpine, Uni Serp, Unipres

hydrALAZINE-hydrochlorothiazide	Apresazide, HydrALAZINE HCl-Hydrochlorothiazid, HydrALAZINE Plus, Hydra-Zide
atenolol-chlorthalidone	Atenolol-Chlorthalidone, Tenoretic 100, Tenoretic 50
bendroflumethiazide-nadolol	Bendroflumethiazide-Nadolol, Corzide 40/5, Corzide 80/5
hydrochlorothiazide-timolol	Timolide 10-25
hydrochlorothiazide-propranolol	Hydrochlorothiazide-Propranolol, Inderide, Inderide :A
hydrochlorothiazide-methyldopa	Aldoril 15, Aldoril 25, Aldoril D30, Aldoril D50, Hydrochlorothiazide-Methyldopa, Hydrochlorothiazide-Metoprolol, Lopressor HCT
benazepril-hydrochlorothiazide	Lotensin HCT, Benazepril-Hydrochlorothiazide
hydrochlorothiazide-lisinopril	Prinzide, Zestoretic, Hydrochlorothiazide-Lisinopril
chlorthalidone-cloNIDine	Chlorthalidone-CloNIDine, Clorpres, Combipres
polythiazide-prazosin	Minizide
guanethidine-hydrochlorothiazide	Esimil
deserpidine-methyclothiazide	Enduronyl, Enduronyl Forte
deserpidine-hydrochlorothiazide	Oreticyl 25, Oreticyl 50, Oreticyl Forte
captopril-hydrochlorothiazide	Capozide 25/15, Capozide 25/25, Capozide 50/15, Capozide 50/25, Captopril-Hydrochlorothiazide
enalapril-hydrochlorothiazide	Enalapril-Hydrochlorothiazide, Vaseretic 10-25, Vaseretic 5-12.5
bisoprolol-hydrochlorothiazide	Ziac, Bisoprolol-Hydrochlorothiazide
chlorothiazide-methyldopa	Aldoclor-150, Aldoclor-250, Chlorothiazide-Methyldopa
amLODIPine-benazepril	Lotrel, AmLODIPine Besylate-Benazepril Hyd
hydrochlorothiazide-losartan	Hyzaar, Hydrochlorothiazide-Losartan
diltiazem-enalapril	Teczem
trandolapril-verapamil	Tarka, Trandolapril-Verapamil Hydrochlori
enalapril-felodipine	Lexxel
hydrochlorothiazide-moexipril	Uniretic, Hydrochlorothiazide-Moexipril Hydr
hydrochlorothiazide-irbesartan	Avalide
hydrochlorothiazide-valsartan	Diovan HCT
hydrochlorothiazide-quinapril	Accuretic, Quinaretic, Hydrochlorothiazide-Quinapril Hydr
fosinopril-hydrochlorothiazide	Fosinopril-Hydrochlorothiazide, Monopril HCT
candesartan-hydrochlorothiazide	Atacand HCT
hydrochlorothiazide-telmisartan	Micardis HCT
eprosartan-hydrochlorothiazide	Teveten HCT
hydrochlorothiazide-olmesartan	Benicar HCT
amLODIPine-atorvastatin	Amlodipine Besylate-Atorvastatin
hydrALAZINE-isosorbide dinitrate	BiDil
amLODIPine-valsartan	Exforge
amLODIPine-olmesartan	Azor
aliskiren-hydrochlorothiazide	Tekturna HCT
amLODIPine/hydrochlorothiazide/valsartan	Exforge HCT
aliskiren-valsartan	Valturna

amLODIPine-telmisartan	Twynsta
amLODIPine/hydrochlorothiazide/ olmesartan	Tribenzor
aliskiren-amLODIPine	Tekamlo
aliskiren/amLODIPine/hydrochlorothiazide	Amturnide

Medications variables were derived using Multum/Lexi-Comp© therapeutic drug categories.

**MDS subjects:** This variable is not available for MDS subjects as medication data were not collected before the introduction of the UDS.

24h.	<b>Variable name</b>	<b>naccangi</b>																	
	<b>Short descriptor</b>	Reported current use of an angiotensin II inhibitor																	
	<b>Data type</b>	Numeric longitudinal																	
	<b>Allowable codes</b>	0 = Did not report use at visit 1 = Reported use at visit 9 = Did not complete medications form																	
	<b>Description/derivation</b>	<p><b>UDS subjects:</b> This variable indicates reported current use of an angiotensin II inhibitor. The following medications are included in this category:</p> <table border="1"> <thead> <tr> <th>Drug name</th> <th>Example brand names</th> </tr> </thead> <tbody> <tr> <td>losartan</td> <td>Cozaar, Losartan Potassium</td> </tr> <tr> <td>valsartan</td> <td>Diovan</td> </tr> <tr> <td>irbesartan</td> <td>Avapro</td> </tr> <tr> <td>eprosartan</td> <td>Teveten</td> </tr> <tr> <td>candesartan</td> <td>Atacand</td> </tr> <tr> <td>telmisartan</td> <td>Micardis</td> </tr> <tr> <td>olmesartan</td> <td>Benicar</td> </tr> <tr> <td>azilsartan</td> <td>Edarbi</td> </tr> </tbody> </table> <p>Medications variables were derived using Multum/Lexi-Comp© therapeutic drug categories.</p> <p><b>MDS subjects:</b> This variable is not available for MDS subjects as medication data were not collected before the introduction of the UDS.</p>	Drug name	Example brand names	losartan	Cozaar, Losartan Potassium	valsartan	Diovan	irbesartan	Avapro	eprosartan	Teveten	candesartan	Atacand	telmisartan	Micardis	olmesartan	Benicar	azilsartan
Drug name	Example brand names																		
losartan	Cozaar, Losartan Potassium																		
valsartan	Diovan																		
irbesartan	Avapro																		
eprosartan	Teveten																		
candesartan	Atacand																		
telmisartan	Micardis																		
olmesartan	Benicar																		
azilsartan	Edarbi																		

25.	<b>Variable name</b>	<b>nacclipl</b>
	<b>Short descriptor</b>	Reported current use of lipid lowering medication
	<b>Data type</b>	Numeric longitudinal
	<b>Allowable codes</b>	0 = Did not report use at visit 1 = Reported use at visit 9 = Did not complete medications form
	<b>Description/derivation</b>	<p><b>UDS subjects:</b> This variable indicates reported current use of a prescription antihyperlipidemic (lipid lowering) medication, including HMG-COA reductase inhibitors, miscellaneous antihyperlipidemic agents, fibric acid derivatives, bile acid sequestrants, cholesterol absorption inhibitors, and antihyperlipidemic combination therapies. The following medications are included in this category:</p>

Drug name	Example brand names
lovastatin	Altoprev, Altacor, Lovastatin, Mevacor
pravastatin	Pravachol, Pravastatin Sodium
simvastatin	Zocor, Simvastatin
fluvastatin	Lescol, Lescol XL
atorvastatin	Lipitor, Atorvastatin Calcium
cerivastatin	Baycol
red yeast rice	Cholestin (obsolete)
rosuvastatin	Crestor
pitavastatin	Livalo
niacin	B3-500-Gr, Niacin, Niacin ER, Niacin SR, Niacin TD, Niacor, Niacor B3, Niaspan ER, Niaspan ER Starter Pack, Nico-400, Nicobid Tempules, Nicolar, Nicotinx, Nicotinic Acid, Slo-Niacin
probucol	Lorelco
dextrothyroxine sodium	Choloxin
clofibrate	Atromid-S, Clofibrate
gemfibrozil	Gemcor, Gemfibrozil, Lopid
fenofibrate	Antara, Fenofibrate, Fenofibrate Micronized, Fenoglide, Lipofen, Lofibra, TriCor, Triglide
fenofibric acid	Fenofibric Acid, Fibricor, Trilipix
cholestyramine	Cholestyramine, Cholestyramine Light, Cholestyramine Light Packets, Cholestyramine Packets, Locholest, Locholest Light, Locholest Light Packets, Locholest Packets, Prevalite, Prevalite Packets, Questran, Questran Light, Questran Light Packets, Questran Packets
colestipol	Colestid, Colestid Flavored, Colestipol Hydrochloride,
colesevelam	Welchol
ezetimibe	Zetia
lovastatin-niacin	Advicor
aspirin-pravastatin	Pravigard Pac
amLODIPine-atorvastatin	Caduet
ezetimibe-simvastatin	Vytorin
niacin-simvastatin	Simcor
simvastatin-sitaGLIPTin	Juvisync

Medications variables were derived using Multum/Lexi-Comp© therapeutic drug categories.

**MDS subjects:** This variable is not available for MDS subjects as medication data were not collected before the introduction of the UDS.

26.	<b>Variable name</b>	<b>naccnsd</b>
	<b>Short descriptor</b>	Reported current use of nonsteroidal anti-inflammatory medication
	<b>Data type</b>	Numeric longitudinal
	<b>Allowable codes</b>	0 = Did not report use at visit 1 = Reported use at visit 9 = Did not complete medications form
	<b>Description/derivation</b>	<b>UDS subjects:</b> This variable indicates reported current use of a nonsteroidal anti-inflammatory medication. Medications included in this category include non-steroidal

anti-inflammatory agents, salicylates, COX2 inhibitors, and analgesic combinations containing one of the latter. The following medications are included in this category:

<b>Drug name</b>	<b>Example brand names</b>
ibuprofen	Advanced Pain Relief, Advil, Advil Childrens, Advil Junior Strength, Advil Junior Strength, Advil Liquigel, Advil Migraine, Advil Pediatric, Arthritis Foundation IB, Caldolor, Cap-Profen, Childrens Ibuprofen Berry, Childrens Ibuprofen, Dolgesic, Genpril, Haltran, IBU, IBU-200, Ibifon 600, Ibru, Ibu-4, Ibu-6, Ibu-8, Ibu-Tab, Ibuprofen, Ibuprofen Childrens, Ibuprofen Dye Free, Ibuprofen IB, Ibuprofen Infants Drops, Ibuprofen PMR, Ibuprofen to Go, Ibuprohm, Menadol, Midol IB, Midol Maximum Strength Cramp Formula, Motrin, Motrin Childrens, Motrin IB, Motrin Infant Drops, Motrin Junior Strength, Motrin Migraine Pain, Motrin Pediatric, NeoProfen, Nuprin, Pediacare Fever, Q-Profen, Rufen, Saleto-200, Saleto-400, Saleto-600, Saleto-800, Sup Pain Med, Tab-Profen, Uni-Pro, Wal-Profen
naproxen	Aflaxen, Aleve, Aleve Caplet, Aleve Easy Open Arthritis, Aleve Gelcap, All Day Pain Relief, Anaprox, Anaprox-DS, Comfort Pac with Naproxen, EC-Naprosyn, Leader Naproxen Sodium, Midol Extended Relief, Naprelan 375, Naprelan 500, Naprelan 750, Naprelan Dose Card, Naprosyn, Naproxen, Naproxen Enteric Coated, Naproxen Sodium, Naproxen Sodium DS, Wal-Proxen, Wal-Proxen Caplets
fenoprofen	Nalfon, Fenoprofen Calcium, Fenoprofen Calcium Anhydrous
ketoprofen	Actron, Ketoprofen, Ketoprofen ER, Orudis, Orudis KT, Oruvail
sulindac	Clinoril, Sulindac
indomethacin	Indocin, Indocin SR, Indomethacin, Indomethacin SR, Indomethacin Sodium Trihydrate
tolmetin	Tolectin, Tolectin 600, Tolectin DS, Tolmetin Sodium
flurbiprofen	Ansaid, Flurbiprofen
ketorolac	Ketorolac Tromethamine, Sprix, Toradol, Toradol IM, Toradol IV/IM
meclofenamate	Meclofenamate Sodium, Meclomen
mefenamic acid	Mefenamic Acid, Ponstel
nabumetone	Nabumetone, Relafen
piroxicam	Feldene, Piroxicam
diclofenac	Cambia, Cataflam, Diclofenac Potassium, Diclofenac Sodium, Diclofenac Sodium XR, Voltaren, Voltaren-XR, Zipsor
etodolac	Etodolac, Etodolac ER, Lodine, Lodine XL
oxaprozin	Daypro, Oxaprozin
bromfenac	DurAct
diclofenac-misoprostol	Arthrotec
meloxicam	Meloxicam, Mobic
lansoprazole-naproxen	PREVACID NapraPAC 375, PREVACID NapraPAC 500
esomeprazole-naproxen	Vimovo
famotidine-ibuprofen	Duexis

aspirin	Acetylsalicylic Acid, Acuprin 81, Arthritis Foundation Aspirin, Arthritis Pain, Arthritis Pain, Ascriptin Enteric, Aspergum Cherry, Aspergum Original, Aspir 81, Aspir-Low, Aspir-trin, Aspirin, Aspirin Adult Low Strength, Aspirin Child Chewable, Aspirin Childrens Cherry, Aspirin Childrens Orange, Aspirin EC Lo-Dose, Aspirin Enteric Coated, Aspirin Lite Coat, Aspirin Litecoat, Aspirin Low Dose, Aspirin Low Strength, Aspirin Tri-Buffered, Aspirin, Extended Release, Aspirin-Antacid, Aspiatab, Bayer Aspirin, Bayer Aspirin Regimen, Bayer Aspirin Sugar Free, Bayer Aspirin with Calcium, Bayer Aspirin with Heart Advantage, Bayer Childrens Aspirin, Bayer Low Dose, Bayer Low Strength, Bayer Plus, Buffered Aspirin, Bufferin, Bufferin Arthritis Strength, Bufferin Extra Strength, Bufferin Low Dose, Buffex, CTD Aspirin, Coated Aspirin, Easprin, Ecotrin, Ecotrin Adult Low Strength, Ecotrin Maximum Strength, Ecpirin, Empirin, Entaprin, Entercote, Extra Strength Bayer, Fasprin, Genacote, Gennin-FC, Genprin, Halfprin, Litecoat Aspirin, Low Dose ASA, Med Aspirin, Minitabs, Norwich Aspirin, Ridiprin, Sloprin, St. Joseph Aspirin, St. Joseph Aspirin Adult Chewable, St. Joseph Aspirin Adult EC, Stanback Analgesic, Tri-Buffered Aspirin, Uni-Buffer, Uni-Tren, Valomag, YSP Aspirin, Zero-Order Release, Zorprin
diflunisal	Diflunisal, Dolobid
choline salicylate	Arthropan
salsalate	Amigesic, Anaflex, Argesic-SA, Disalcid, Marthritic, Mono-Gesic, Salflex, Salsalate, Salsitab
sodium salicylate	Sodium Salicylate
sodium thiosalicylate	Rexolate, Sodium Thiosalicylate, Tusal
magnesium salicylate	Backache Relief Extra Strength, Bayer Select Backache Pain Formula, Doans Pills, Doans Pills Extra Strength, MST, Magan, Magnesium Salicylate, Mobidin, Novasal, Nuprin Backache Caplet
choline salicylate-magnesium salicylate	CMT, Choline Magnesium Trisalicylate, Tricosal, Trilisate
ASA/citric acid/Na bicarb	Alka-Seltzer, Alka-Seltzer Blue, Alka-Seltzer Extra Strength, Alka-Seltzer Flavored, Effervescent Pain & Antacid, Effervescent Pain Relief, Pain Relief (Effervescent)
Al hydroxide/ASA/Ca carbonate/Mg hydroxide	Arthritis Pain Formula, Ascriptin, Ascriptin Maximum Strength, Aspidrox, Aspir-Mox, Aspir-Mox IB, Aspirin Buffered, Aspirin Plus Antacid Extra Strength, Magnaprin
celecoxib	CeleBREX
rofecoxib	Vioxx
valdecoxib	Bextra
APAP/ASA/caffeine/salicylamide	Levacet, Saletto
APAP/ASA/caffeine	Excedrin, Excedrin Express Gels, Excedrin Extra Strength, Excedrin Extra Strength Geltab, Excedrin Geltab, Excedrin Menstrual Express Gels, Excedrin Migraine, Excedrin Migraine Geltab, Ex-Pain, Genace, Acetaminophen/Aspirin/Caffeine, Anacin Advanced Headache Formula, Goodys Headache Powders, Goodys Extra Strength, Headache Relief, Migraine Formula, Pain Reliever Added Strength, Pain Reliever Plus, Pamprin Max, Supac, Uni-Case
APAP/Al hydroxide/ASA/caffeine/Mg hydroxide	Vanquish
ASA/caffeine/salicylamide	B.C. Powder, B.C. Powder Arthritis Strength, B.C. Headache, Emagrin
aspirin-meprobamate	Equagesic

aspirin-caffeine	AA&C, Adult Pain, Adult Strength, Alka-Seltzer Morning Relief, Anacin, Anacin Extra Strength, Analgesic Pain Reliever, Aspircaf, Aspirin-Caffeine, CP-2, Cope, Genasan, Major-Cin, P-A-C Analgesic, Pain Relief with Aspirin, Q-Acin, Uni-Ann
aspirin-phenyltoloxamine	Momentum
magnesium salicylate-phenyltoloxamine	Mag-Phen, Magsal, Mobigesic, Tetra-Mag
ASA/butalbital/caffeine	Aspirin/Butalbital/Caffeine, Butalbital Compound, Fiorinal, Fiormor, Fiortal, Fortabs, Idenal, Isollyl, Laniroif
aspirin-butalbital	Axotal
aspirin-diphenhydrAMINE	Bayer Aspirin PM Extra Strength, Bayer NightTime Relief
diphenhydrAMINE-magnesium salicylate	Doans PM
acetaminophen-salicylamide	Frenadol, Panritis Forte
APAP/caffeine/phenyltoloxamine/salicylamide	Cafgesic
APAP/phenyltoloxamine/salicylamide	Anabar, Be-Flex Plus, By-Ache, Dolorex, Ed-Flex, Lobac
APAP/caffeine/mg salicylate/phenyltoloxamin	Cafgesic Forte, Combiflex ES, Durabac Forte
diphenhydrAMINE-ibuprofen	Advil PM, Advil PM Liqui-Gels, Ibuprofen PM, Motrin PM
APAP/caffeine/magnesium salicylate	KneeRelief
acetaminophen-aspirin	Excedrin Back & Body
caffeine-magnesium salicylate	Diurex
APAP/magnesium salicylate/pamabrom	Pamprin Cramp Formula

Medications variables were derived using Multum/Lexi-Comp® therapeutic drug categories.

**MDS subjects:** This variable is not available for MDS subjects as medication data were not collected before the introduction of the UDS.

27.	<b>Variable name</b>	<b>naccac</b>								
	<b>Short descriptor</b>	Reported current use of an anticoagulant or antiplatelet agent								
	<b>Data type</b>	Numeric longitudinal								
	<b>Allowable codes</b>	0 = Did not report use at visit 1 = Reported use at visit 9 = Did not complete medications form								
	<b>Description/derivation</b>	<b>UDS subjects:</b> This variable indicates reported current use of an anti-clotting or blood-thinning medication, including heparins, coumarins and indandiones, thrombin inhibitors, factor Xa inhibitors, platelet aggregation inhibitors, and glycoprotein platelet inhibitors. The following medications are included in this category:  <table border="1"> <thead> <tr> <th>Drug name</th> <th>Example brand names</th> </tr> </thead> <tbody> <tr> <td>heparin</td> <td>Dextrose-Heparin Sodium, Heparin Sodium, Heparin Sodium (beef), Heparin Sodium ADD-Vantage, Heparin Sodium Preservative Free, Heparin Sodium-Sodium Chloride</td> </tr> <tr> <td>enoxaparin</td> <td>Lovenox, Enoxaparin Sodium</td> </tr> <tr> <td>dalteparin</td> <td>Fragmin</td> </tr> </tbody> </table>	Drug name	Example brand names	heparin	Dextrose-Heparin Sodium, Heparin Sodium, Heparin Sodium (beef), Heparin Sodium ADD-Vantage, Heparin Sodium Preservative Free, Heparin Sodium-Sodium Chloride	enoxaparin	Lovenox, Enoxaparin Sodium	dalteparin	Fragmin
Drug name	Example brand names									
heparin	Dextrose-Heparin Sodium, Heparin Sodium, Heparin Sodium (beef), Heparin Sodium ADD-Vantage, Heparin Sodium Preservative Free, Heparin Sodium-Sodium Chloride									
enoxaparin	Lovenox, Enoxaparin Sodium									
dalteparin	Fragmin									

danaparoid	Orgaran
ardeparin	Normiflo
tinzaparin	Innohep
heparin flush	Hep-Lock, Hep-Pak, Hep-Pak CVC, Heparin (Preservative Free) in Sod, Heparin Lock Flush, Heparin Sodium in Sodium Chloride, Lok-Pak Needleless Kit, Lok-Pak-N, Monoject Prefill Advanced, PosiFlush
warfarin	Coumadin, Jantoven, Warfarin Sodium
anisindione	Miradon
dicumarol	Dicumarol
lepirudin	Refludan
argatroban	Acova, Argatroban
bivalirudin	Angiomax
desirudin	Iprivask
dabigatran	Pradaxa
fondaparinux	Arixtra, Fondaparinux Sodium
rivaroxaban	Xarelto
aspirin	Acetylsalicylic Acid, Acuprin 81, Arthritis Foundation Aspirin, Arthritis Pain, Arthritis Pain, Ascriptin Enteric, Aspergum Cherry, Aspergum Orginal, Aspir 81, Aspir-Low, Aspir-trin, Aspirin, Aspirin Adult Low Strength, Aspirin Child Chewable, Aspirin Childrens Cherry, Aspirin Childrens Orange, Aspirin EC Lo-Dose, Aspirin Enteric Coated, Aspirin Lite Coat, Aspirin Litecoat, Aspirin Low Dose, Aspirin Low Strength, Aspirin Tri-Buffered, Aspirin, Extended Release, Aspirin-Antacid, Aspiatab, Bayer Aspirin, Bayer Aspirin Regimen, Bayer Aspirin Sugar Free, Bayer Aspirin with Calcium, Bayer Aspirin with Heart Advantage, Bayer Childrens Aspirin, Bayer Low Dose, Bayer Low Strength, Bayer Plus, Buffered Aspirin, Bufferin, Bufferin Arthritis Strength, Bufferin Extra Strength, Bufferin Low Dose, Buffex, CTD Aspirin, Coated Aspirin, Easprin, Ecotrin, Ecotrin Adult Low Strength, Ecotrin Maximum Strength, Ecpirin, Empirin, Entaprin, Entericote, Extra Strength Bayer, Fasprin, Genacote, Gennin-FC, Genprin, Halfprin, Litecoat Aspirin, Low Dose ASA, Med Aspirin, Minitabs, Norwich Aspirin, Ridiprin, Sloprin, St. Joseph Aspirin, St. Joseph Aspirin Adult Chewable, St. Joseph Aspirin Adult EC, Stanback Analgesic, Tri-Buffered Aspirin, Uni-Buffer, Uni-Tren, Valomag, YSP Aspirin, Zero-Order Release, Zorprin
dipyridamole	Dipyridamole
ticlopidine	Ticlid, Ticlopidine Hydrochloride
clopidogrel	Clopidogrel, Plavix
cilostazol	Pletal
aspirin-dipyridamole	Aggrenox
aspirin-pravastatin	Pravigard Pac
prasugrel	Effient
aspirin-calcium carbonate	Bayer Womens Low Dose Plus Calcium
ticagrelor	Brilinta
abciximab	Reopro
tirofiban	Aggrastat
eptifibatide	Integrilin

Medications variables were derived using Multum/Lexi-Comp© therapeutic drug categories.

**MDS subjects:** This variable is not available for MDS subjects as medication data were not collected before the introduction of the UDS.

28.	<b>Variable name</b>	<b>naccadep</b>
	<b>Short descriptor</b>	Reported current use of an antidepressant
	<b>Data type</b>	Numeric longitudinal
	<b>Allowable codes</b>	0 = Did not report use at visit 1 = Reported use at visit 9 = Did not complete medications form

**Description/derivation** **UDS subjects:** This variable indicates reported current use of a prescription antidepressant, including miscellaneous, SSRIs, tricyclic, MOI, phenylpiperazine, tetracyclic, and SSNRI antidepressants. The following medications are included in this category:

<b>Drug name</b>	<b>Example brand names</b>
buPROPion	Aplenzin
St. Johns wort	St. Johns Wort
5-hydroxytryptophan	5-HTP
vilazodone	Viibryd
FLUoxetine	FLUoxetine Hydrochloride, FLUoxetine Hydrochloride DR, PROzac, PROzac Weekly, Rapiflux, Sarafem, Selfemra
sertraline	Zoloft, Sertraline Hydrochloride
PARoxetine	Paxil, Paxil CR, Pexeva, PARoxetine Hydrochloride, PARoxetine Hydrochloride ER
fluvoxamine	Fluvoxamine Maleate, Luvox, Luvox CR
citalopram	CeleXA, Citalopram Hydrobromide
escitalopram	Lexapro
nortriptyline	Aventyl HCl, Nortriptyline Hydrochloride, Pamelor
desipramine	Desipramine Hydrochloride, Norpramin
amitriptyline	Amitriptyline Hydrochloride, Elavil, Endep, Vanatrip
doxepin	Doxepin Hydrochloride, SINEquan, Silenor
imipramine	Imipramine Hydrochloride, Imipramine Pamoate, Tofranil, Tofranil-PM
trimipramine	Surmontil, Trimipramine Maleate
amoxapine	Asendin, Amoxapine
protriptyline	Vivactil, Protriptyline Hydrochloride
clomipramine	Anafranil, Clomipramine Hydrochloride
isocarboxazid	Marplan
phenelzine	Nardil, Phenelzine Sulfate
tranylcypromine	Parnate, Tranylcypromine Sulfate
selegiline	Atapryl
traZODone	Desyrel, Desyrel Dividose, Oleptro, TraZODone Hydrochloride
nefazodone	Serzone, Nefazodone Hydrochloride
maprotiline	Ludiomil, Maprotiline Hydrochloride
mirtazapine	Mirtazapine, Remeron, Remeron SolTab
venlafaxine	Effexor, Effexor XR, Venlafaxine Hydrochloride, Venlafaxine Hydrochloride ER
DULoxetine	Cymbalta
milnacipran	Savella
desvenlafaxine	Pristiq

Medications variables were derived using Multum/Lexi-Comp® therapeutic drug categories.

**MDS subjects:** This variable is not available for MDS subjects as medication data were not collected before the introduction of the UDS.

29.	<b>Variable name</b>	<b>naccapsy</b>																																																						
	<b>Short descriptor</b>	Reported current use of an antipsychotic agent																																																						
	<b>Data type</b>	Numeric longitudinal																																																						
	<b>Allowable codes</b>	0 = Did not report use at visit 1 = Reported use at visit 9 = Did not complete medications form																																																						
	<b>Description/derivation</b>	<p><b>UDS subjects:</b> This variable indicates reported current use of an antipsychotic agent, including miscellaneous antipsychotics, psychotherapeutic combinations, phenothiazine psychotics, thioxanthenes, and atypical antipsychotics. The following medications are included in this category:</p> <table border="1"> <thead> <tr> <th>Drug name</th> <th>Example brand names</th> </tr> </thead> <tbody> <tr> <td>haloperidol</td> <td>Haldol, Haldol Decanoate, Haloperidol, Haloperidol Decanoate, Haloperidol Lactate</td> </tr> <tr> <td>lithium</td> <td>Eskalith, Eskalith-CR, Lithium Carbonate, Lithium Citrate, Lithobid, Lithonate, Lithotabs</td> </tr> <tr> <td>molindone</td> <td>Moban</td> </tr> <tr> <td>loxapine</td> <td>Loxapine Succinate, Loxitane, Loxitane C, Loxitane IM</td> </tr> <tr> <td>pimozide</td> <td>Orap</td> </tr> <tr> <td>amitriptyline-chlordiazepoxide</td> <td>Amitriptyline-Chlordiazepoxide, Limbitrol, Limbitrol DS</td> </tr> <tr> <td>amitriptyline-perphenazine</td> <td>Duo-Vil 2-10, Duo-Vil 2-25, Duo-Vil 4-10, Etrafon 2-10, Etrafon 2-25, Etrafon Forte, Etrafon-A, Perphenazine-Amitriptyline, Triavil</td> </tr> <tr> <td>FLUoxetine-OLANzapine</td> <td>Symbyax, FLUoxetine-OLANzapine</td> </tr> <tr> <td>chlorpromazine</td> <td>Ormazine, Thorazine, Thorazine Spansule, Chlorpromazine Hydrochloride</td> </tr> <tr> <td>fluPHENAZine</td> <td>Permitil, Prolixin, FluPHENAZine Decanoate, FluPHENAZine Hydrochloride, Prolixin Decanoate, Prolixin Enanthate</td> </tr> <tr> <td>prochlorperazine</td> <td>Compro, Compazine Spansule, Prochlorperazine, Prochlorperazine Edisylate, Prochlorperazine Maleate, Procot</td> </tr> <tr> <td>promazine</td> <td>Sparine, Promazine Hydrochloride</td> </tr> <tr> <td>thioridazine</td> <td>Mellaril, Mellaril-S, Thioridazine Hydrochloride</td> </tr> <tr> <td>methotrimeprazine</td> <td>Levoprome</td> </tr> <tr> <td>perphenazine</td> <td>Trilafon</td> </tr> <tr> <td>mesoridazine</td> <td>Serentil</td> </tr> <tr> <td>trifluoperazine</td> <td>Stelazine, Trifluoperazine Hydrochloride</td> </tr> <tr> <td>triflupromazine</td> <td>Vesprin</td> </tr> <tr> <td>thiothixene</td> <td>Navane, Thiothixene</td> </tr> <tr> <td>clozapine</td> <td>Clozapine, Clozaril, FazaClo</td> </tr> <tr> <td>risperidone</td> <td>RisperDAL, RisperDAL Consta, RisperDAL M-Tab, Risperidone</td> </tr> <tr> <td>OLANzapine</td> <td>Olanzapine, ZyPREXA, ZyPREXA Relprevv, ZyPREXA Zydis</td> </tr> <tr> <td>QUetiapine</td> <td>SEROquel, SEROquel XR</td> </tr> <tr> <td>ziprasidone</td> <td>Geodon</td> </tr> <tr> <td>ARIPrazole</td> <td>Abilify, Abilify Discmelt</td> </tr> <tr> <td>paliperidone</td> <td>Invega, Invega Sustenna</td> </tr> </tbody> </table>	Drug name	Example brand names	haloperidol	Haldol, Haldol Decanoate, Haloperidol, Haloperidol Decanoate, Haloperidol Lactate	lithium	Eskalith, Eskalith-CR, Lithium Carbonate, Lithium Citrate, Lithobid, Lithonate, Lithotabs	molindone	Moban	loxapine	Loxapine Succinate, Loxitane, Loxitane C, Loxitane IM	pimozide	Orap	amitriptyline-chlordiazepoxide	Amitriptyline-Chlordiazepoxide, Limbitrol, Limbitrol DS	amitriptyline-perphenazine	Duo-Vil 2-10, Duo-Vil 2-25, Duo-Vil 4-10, Etrafon 2-10, Etrafon 2-25, Etrafon Forte, Etrafon-A, Perphenazine-Amitriptyline, Triavil	FLUoxetine-OLANzapine	Symbyax, FLUoxetine-OLANzapine	chlorpromazine	Ormazine, Thorazine, Thorazine Spansule, Chlorpromazine Hydrochloride	fluPHENAZine	Permitil, Prolixin, FluPHENAZine Decanoate, FluPHENAZine Hydrochloride, Prolixin Decanoate, Prolixin Enanthate	prochlorperazine	Compro, Compazine Spansule, Prochlorperazine, Prochlorperazine Edisylate, Prochlorperazine Maleate, Procot	promazine	Sparine, Promazine Hydrochloride	thioridazine	Mellaril, Mellaril-S, Thioridazine Hydrochloride	methotrimeprazine	Levoprome	perphenazine	Trilafon	mesoridazine	Serentil	trifluoperazine	Stelazine, Trifluoperazine Hydrochloride	triflupromazine	Vesprin	thiothixene	Navane, Thiothixene	clozapine	Clozapine, Clozaril, FazaClo	risperidone	RisperDAL, RisperDAL Consta, RisperDAL M-Tab, Risperidone	OLANzapine	Olanzapine, ZyPREXA, ZyPREXA Relprevv, ZyPREXA Zydis	QUetiapine	SEROquel, SEROquel XR	ziprasidone	Geodon	ARIPrazole	Abilify, Abilify Discmelt	paliperidone	Invega, Invega Sustenna
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iloperidone	Fanapt
asenapine	Saphris, Saphris Black Cherry
lurasidone	Latuda

Medications variables were derived using Multum/Lexi-Comp® therapeutic drug categories.

**MDS subjects:** This variable is not available for MDS subjects as medication data were not collected before the introduction of the UDS.

30.	<b>Variable name</b>	<b>naccaanx</b>																																																		
	<b>Short descriptor</b>	Reported current use of an anxiolytic, sedative, or hypnotic agent																																																		
	<b>Data type</b>	Numeric longitudinal																																																		
	<b>Allowable codes</b>	0 = Did not report use at visit 1 = Reported use at visit 9 = Did not complete medications form																																																		
	<b>Description/derivation</b>	<p><b>UDS subjects:</b> This variable indicates reported current use of an anxiolytic, sedative or hypnotic agent, including barbituates, benzodiazepines and miscellaneous anxiolytics, sedatives, and hypnotics. The following medications are included in this category:</p> <table border="1"> <thead> <tr> <th>Drug name</th> <th>Example brand names</th> </tr> </thead> <tbody> <tr> <td>amobarbital</td> <td>Amobarbital Sodium, Amytal Sodium</td> </tr> <tr> <td>PENTobarbital</td> <td>Nembutal, Nembutal Sodium, PENTobarbital Sodium, Pentobarbital, Luminal</td> </tr> <tr> <td>secobarbital</td> <td>Secobarbital Sodium, Seconal Sodium</td> </tr> <tr> <td>mephobarbital</td> <td>Mebaral</td> </tr> <tr> <td>butabarbital</td> <td>Busodium, Butabarbital, Butisol Sodium</td> </tr> <tr> <td>butalbital</td> <td>Butalbital</td> </tr> <tr> <td>amobarbital-secobarbital</td> <td>Tuinal</td> </tr> <tr> <td>oxazepam</td> <td>Oxazepam, Serax</td> </tr> <tr> <td>diazepam</td> <td>Diastat, Diastat AcuDial, Diastat Pediatric, Valium, Valrelease, Zetran, Diazepam</td> </tr> <tr> <td>LORazepam</td> <td>Ativan</td> </tr> <tr> <td>ALPRAZolam</td> <td>Alprazolam, ALPRAZolam ER, Niravam, Xanax, Xanax XR</td> </tr> <tr> <td>chlordiazePOXIDE</td> <td>Libritabs, ChlordiazePOXIDE Hydrochloride, Librium, Mitran, Poxi</td> </tr> <tr> <td>clonazePAM</td> <td>ClonazePAM, Clorazepate Dipotassium, Gen-xene, Tranxene SD, Tranxene T-Tab</td> </tr> <tr> <td>flurazepam</td> <td>Dalmane, Flurazepam Hydrochloride,</td> </tr> <tr> <td>midazolam</td> <td>Midazolam, Midazolam Hydrochloride, Versed</td> </tr> <tr> <td>temazepam</td> <td>Restoril, Temazepam</td> </tr> <tr> <td>triazolam</td> <td>Halcion, Triazolam</td> </tr> <tr> <td>halazepam</td> <td>Paxipam</td> </tr> <tr> <td>estazolam</td> <td>Estazolam, Prosom</td> </tr> <tr> <td>quazepam</td> <td>Doral</td> </tr> <tr> <td>chloral hydrate</td> <td>Aquachloral Suppettes, Chloral Hydrate, Somnote</td> </tr> <tr> <td>busPIRone</td> <td>BuSpar, BuSpar Dividose, BusPIRone Hydrochloride, Vanspar</td> </tr> <tr> <td>diphenhydrAMINE</td> <td>DiphenhydrAMINE Hydrochloride</td> </tr> <tr> <td>doxepin</td> <td>Adapin</td> </tr> </tbody> </table>	Drug name	Example brand names	amobarbital	Amobarbital Sodium, Amytal Sodium	PENTobarbital	Nembutal, Nembutal Sodium, PENTobarbital Sodium, Pentobarbital, Luminal	secobarbital	Secobarbital Sodium, Seconal Sodium	mephobarbital	Mebaral	butabarbital	Busodium, Butabarbital, Butisol Sodium	butalbital	Butalbital	amobarbital-secobarbital	Tuinal	oxazepam	Oxazepam, Serax	diazepam	Diastat, Diastat AcuDial, Diastat Pediatric, Valium, Valrelease, Zetran, Diazepam	LORazepam	Ativan	ALPRAZolam	Alprazolam, ALPRAZolam ER, Niravam, Xanax, Xanax XR	chlordiazePOXIDE	Libritabs, ChlordiazePOXIDE Hydrochloride, Librium, Mitran, Poxi	clonazePAM	ClonazePAM, Clorazepate Dipotassium, Gen-xene, Tranxene SD, Tranxene T-Tab	flurazepam	Dalmane, Flurazepam Hydrochloride,	midazolam	Midazolam, Midazolam Hydrochloride, Versed	temazepam	Restoril, Temazepam	triazolam	Halcion, Triazolam	halazepam	Paxipam	estazolam	Estazolam, Prosom	quazepam	Doral	chloral hydrate	Aquachloral Suppettes, Chloral Hydrate, Somnote	busPIRone	BuSpar, BuSpar Dividose, BusPIRone Hydrochloride, Vanspar	diphenhydrAMINE	DiphenhydrAMINE Hydrochloride	doxepin	Adapin
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ethchlorvynol	Placidyl
meprobamate	Equanil, MB-TAB, Meprobamate, Miltown
pyrilamine	Pyrilamine Maleate
hydrOXYzine	Anx
chlormezanone	Trancopal
zolpidem	Ambien, Ambien CR, Edluar, Zolpidem Tartrate, Zolpidem Tartrate ER, Zolpimist
paraldehyde	Paral
acetylcarbromal	Paxarel
propiomazine	Largon
doxylamine	Aldex AN, Doxylamine Succinate, Nitetime, Nytol Maximum Strength, Sleep Aid (Doxylamine), Unisom
melatonin	Melatonin
zaleplon	Sonata, Zaleplon
dexmedetomidine	Precedex
sodium oxybate	Xyrem
eszopiclone	Lunesta
ramelteon	Rozerem

Medications variables were derived using Multum/Lexi-Comp© therapeutic drug categories.

**MDS subjects:** This variable is not available for MDS subjects as medication data were not collected before the introduction of the UDS.

31.	<b>Variable name</b>	<b>naccadm</b>
	<b>Short descriptor</b>	Reported current use of a FDA-approved medication for Alzheimer's disease symptoms
	<b>Data type</b>	Numeric longitudinal
	<b>Allowable codes</b>	0 = Did not report use at visit 1 = Reported use at visit 9 = Did not complete medications form

**Description/derivation** **UDS subjects:** This variable indicates reported current use of a FDA-approved medication for Alzheimer's disease symptoms, including cholinesterase inhibitors and memantine. The following medications are included in this category:

Drug name	Example brand names
tacrine	Cognex
donepezil	Aricept, Aricept ODT, Donepezil Hydrochloride
rivastigmine	Exelon, Rivastigmine Tartrate
galantamine	Razadyne, Razadyne ER, Reminyl, Galantamine Hydrobromide, Galantamine Hydrobromide ER
memantine	Namenda

Medications variables were derived using Multum/Lexi-Comp© therapeutic drug categories.

**MDS subjects:** This variable is not available for MDS subjects as medication data were not collected before the introduction of the UDS.

32.	<b>Variable name</b>	<b>naccpdmd</b>
	<b>Short descriptor</b>	Reported current use of an antiparkinson agent
	<b>Data type</b>	Numeric longitudinal
	<b>Allowable codes</b>	0 = Did not report use at visit 1 = Reported use at visit 9 = Did not complete medications form

**Description/derivation** **UDS subjects:** This variable indicates reported current use of a Parkinsons disease medication, including anticholinergic and dopaminergic antiparkinson agents. The following medications are included in this category:

<b>Drug name</b>	<b>Example brand names</b>
benztropine	Cogentin, Benztropine Mesylate
diphenhydrAMINE	DiphenhydrAMINE Hydrochloride
procyclidine	Kemadrin
trihexyphenidyl	Artane, Trihexane, Trihexyphenidyl Hydrochloride
biperiden	Akineton HCl
amantadine	Symmetrel, Symadine
bromocriptine	Bromocriptine Mesylate
carbidopa	Carbidopa, Lodosyn
levodopa	Levodopa, Larodopa, Dopar
selegiline	Carbex, Eldepryl, Emsam, Selegiline Hydrochloride, Zelapar
pergolide	Permax, Pergolide Mesylate
carbidopa-levodopa	Atamet, Carbidopa-Levodopa, Carbidopa-Levodopa CR, Parcopa, Sinemet, Sinemet CR
cabergoline	Cabergoline
pramipexole	Mirapex, Mirapex ER, Pramipexole Dihydrochloride
rOPINIRole	Requip, Requip Starter Kit, Requip XL, ROPINIRole Hydrochloride
tolcapone	Tasmar
entacapone	Comtan
carbidopa/entacapone/ levodopa	Stalevo 50, Stalevo 75, Stalevo 100, Stalevo 125, Stalevo 150, Stalevo 200
apomorphine	Apokyn, Apomorphine Hydrochloride
rasagiline	Azilect
rotigotine	Neupro

Medications variables were derived using Multum/Lexi-Comp© therapeutic drug categories.

**MDS subjects:** This variable is not available for MDS subjects as medication data were not collected before the introduction of the UDS.

33.	<b>Variable name</b>	<b>nacccl</b>
	<b>Short descriptor</b>	Form date discrepancy between UDS Form A1 and Form C1
	<b>Data type</b>	Numeric longitudinal
	<b>Allowable codes</b>	0 = UDS Form C1 completed within 90 days of Form A1 1 = UDS Form C1 completed >90 days before or after Form A1 9 = UDS Form C1 not completed
	<b>Description/derivation</b>	<p><b>UDS subjects:</b> This variable flags any visit in which the Form C1 date (the date the neuropsychological test battery was conducted) is greater than 90 days before or after the Form A1 (Subject Demographics) date. For all UDS subjects, NACC uses the Form A1 date to determine the visit date (<a href="#">visitmo</a>, <a href="#">visityd</a>, <a href="#">visityr</a>).</p> <p><b>MDS subjects:</b> This variable is not available for MDS subjects it deals specifically with UDS forms.</p>

34.	<b>Variable name</b>	<b>naccamd</b>
	<b>Short descriptor</b>	Total number of medications reported at each visit
	<b>Data type</b>	Numeric longitudinal
	<b>Allowable codes</b>	0–40, 99
	<b>Description/derivation</b>	<p><b>UDS subjects:</b> This variable provides the total number of medications reported at a visit including all prescription and over the counter medications reported on UDS Form A4 at a single visit. If the medications form was not completed, then <a href="#">naccnmd</a>=99.</p> <p><b>MDS subjects:</b> This variable is not available for MDS subjects as medication data were not collected before the introduction of the UDS.</p>

35a.	<b>Variable name</b>	<b>naccemd</b>
	<b>Short descriptor</b>	Reported current use of estrogen hormone therapy
	<b>Data type</b>	Numeric longitudinal
	<b>Allowable codes</b>	0 = Did not report use at visit 1 = Reported use at visit 9 = Did not complete medications form

**Description/derivation** **UDS subjects:** This variable indicates the current use of an estrogen-alone hormone therapy, including estradiol, conjugated estrogens, and esterified estrogens. Topical preparations are not included. The following medications are included in this category:

<b>Drug name</b>	<b>Example brand names</b>
conjugated estrogens	Cenestin, Premarin
esterified estrogens	Menest
estradiol	Fempatch, Estrace
estropipate	Ogen, Ortho-Est
diethylstilbestrol	Stilphostrol
quiestrol	quiestrol

Medications variables were derived using Multum/Lexi-Comp® therapeutic drug categories.

**MDS subjects:** This variable is not available for MDS subjects as medication data were not collected before the introduction of the UDS.

35b.	<b>Variable name</b>	<b>naccepmd</b>												
	<b>Short descriptor</b>	Reported current use of estrogen + progestin hormone therapy												
	<b>Data type</b>	Numeric longitudinal												
	<b>Allowable codes</b>	0 = Did not report use at visit 1 = Reported use at visit 9 = Did not complete medications form												
	<b>Description/derivation</b>	<p><b>UDS subjects:</b> This variable indicates the current use of an estrogen and progestin (or progesterone analog) combination hormone therapy. Topical preparations are not included. The following medications are included in this category:</p> <table border="1"> <thead> <tr> <th>Drug name</th> <th>Example brand names</th> </tr> </thead> <tbody> <tr> <td>drospirenone-estradiol</td> <td>Angeliq</td> </tr> <tr> <td>ethinyl estradiol-norethindrone</td> <td>FemHrt</td> </tr> <tr> <td>estradiol-norethindrone</td> <td>Mimvey, Activella</td> </tr> <tr> <td>estradiol-norgestimate</td> <td>Prefest, Ortho-Prefest</td> </tr> <tr> <td>conjugated estrogens- medroxyprogesterone</td> <td>Premphase, Prempro</td> </tr> </tbody> </table> <p>Medications variables were derived using Multum/Lexi-Comp© therapeutic drug categories.</p> <p><b>MDS subjects:</b> This variable is not available for MDS subjects as medication data were not collected before the introduction of the UDS.</p>	Drug name	Example brand names	drospirenone-estradiol	Angeliq	ethinyl estradiol-norethindrone	FemHrt	estradiol-norethindrone	Mimvey, Activella	estradiol-norgestimate	Prefest, Ortho-Prefest	conjugated estrogens- medroxyprogesterone	Premphase, Prempro
Drug name	Example brand names													
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conjugated estrogens- medroxyprogesterone	Premphase, Prempro													

36.	<b>Variable name</b>	<b>naccdbmd</b>																								
	<b>Short descriptor</b>	Reported current use of a diabetes medication																								
	<b>Data type</b>	Numeric longitudinal																								
	<b>Allowable codes</b>	0 = Did not report use at visit 1 = Reported use at visit 9 = Did not complete medications form																								
	<b>Description/derivation</b>	<p><b>UDS subjects:</b> This variable indicates the current use of a diabetes medication, including insulin, sulfonylureas, biguanides, dipeptidyl peptidase 4 inhibitors, amylin analogs, incretin mimetics, and antidiabetic combinations. The following medications are included in this category:</p> <table border="1"> <thead> <tr> <th>Drug name</th> <th>Example brand names</th> </tr> </thead> <tbody> <tr> <td>chlorproPAMIDE</td> <td>ChlorproPAMIDE, Diabinese</td> </tr> <tr> <td>acetoHEXAMIDE</td> <td>AcetoHEXAMIDE, Dymelor</td> </tr> <tr> <td>glipiZIDE</td> <td>GlipiZIDE, GlipiZIDE Extended Release, Glucotrol</td> </tr> <tr> <td>glyBURIDE</td> <td>DiaBeta, Glycron, Micronase</td> </tr> <tr> <td>TOLAZamide</td> <td>Tolazamide, Tolinase</td> </tr> <tr> <td>TOLBUTamide</td> <td>Orinase, Tol-Tab, Tolbutamide</td> </tr> <tr> <td>glimepiride</td> <td>Amaryl, Glimepiride</td> </tr> <tr> <td>metFORMIN</td> <td>Fortamet, Glucophage, MetFORMIN Hydrochloride, Riomet, Glumetza</td> </tr> <tr> <td>insulin</td> <td>insulin</td> </tr> <tr> <td>insulin lispro protamine</td> <td>insulin lispro protamine</td> </tr> <tr> <td>insulin regular</td> <td>HumuLIN R, HumuLIN R (Concentrated), Iletin Regular, Iletin II Regular Pork, Insulin Purified Regular Pork, NovoLIN R, NovoLIN R Innolet, NovoLIN R PenFill, Velosulin BR, ReliOn/NovoLIN R</td> </tr> </tbody> </table>	Drug name	Example brand names	chlorproPAMIDE	ChlorproPAMIDE, Diabinese	acetoHEXAMIDE	AcetoHEXAMIDE, Dymelor	glipiZIDE	GlipiZIDE, GlipiZIDE Extended Release, Glucotrol	glyBURIDE	DiaBeta, Glycron, Micronase	TOLAZamide	Tolazamide, Tolinase	TOLBUTamide	Orinase, Tol-Tab, Tolbutamide	glimepiride	Amaryl, Glimepiride	metFORMIN	Fortamet, Glucophage, MetFORMIN Hydrochloride, Riomet, Glumetza	insulin	insulin	insulin lispro protamine	insulin lispro protamine	insulin regular	HumuLIN R, HumuLIN R (Concentrated), Iletin Regular, Iletin II Regular Pork, Insulin Purified Regular Pork, NovoLIN R, NovoLIN R Innolet, NovoLIN R PenFill, Velosulin BR, ReliOn/NovoLIN R
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insulin isophane	HumuLIN N, HumuLIN N Pen, Iletin II NPH Pork, Iletin NPH, Insulin Purified NPH Pork, NovoLIN N, NovoLIN N Innolet, NovoLIN N PenFill, Relion NovoLIN N
insulin zinc	HumuLIN L, Iletin II Lente Pork, Iletin Lente, Insulin Lente Pork, NovoLIN L
insulin zinc extended	HumuLIN U
insulin lispro	HumaLOG, HumaLOG Cartridge, HumaLOG KwikPen, HumaLOG Pen, Lispro PRC
insulin isophane-insulin regular	HumuLIN 50/50, HumuLIN 70/30, HumuLIN 70/30 Pen, Insulin Pork Mix, NovoLIN 70/30, NovoLIN 70/30 Innolet, NovoLIN 70/30 PenFill, ReliOn/NovoLIN 70/30, Relion NovoLIN 70/30 Innolet
insulin lispro-insulin lispro protamine	HumaLOG Mix 50/50, HumaLOG Mix 50/50 KwikPen, HumaLOG Mix 50/50 Pen, HumaLOG Mix 75/25, HumaLOG Mix 75/25 KwikPen, HumaLOG Mix 75/25 Pen
insulin glargine	Lantus, Lantus OptiClik Cartridge, Lantus SoloStar Pen
insulin aspart	NovoLOG, NovoLOG FlexPen, NovoLOG PenFill
insulin aspart protamine	insulin aspart protamine
insulin aspart-insulin aspart protamine	NovoLOG Mix 70/30, NovoLOG Mix 70/30 FlexPen, NovoLOG Mix 70/30 PenFill
insulin glulisine	Apidra, Apidra OptiClik Cartridge, Apidra SoloStar Pen
insulin detemir	Levemir, Levemir FlexPen
insulin inhalation, rapid acting	EXUBERA, EXUBERA Combination Pack 12, EXUBERA Combination Pack 15, EXUBERA Kit
acarbose	Acarbose, Precose
miglitol	Glyset
troglitazone	Rezulin
rosiglitazone	Avandia
pioglitazone	Actos
repaglinide	Prandin
nateglinide	Nateglinide, Starlix
glyBURIDE-metFORMIN	Glucovance, Glyburide-Metformin
metFORMIN-rosiglitazone	Avandamet
glipiZIDE-metFORMIN	GlipiZIDE-Metformin, Metaglip
metFORMIN-pioglitazone	Actoplus Met, Actoplus Met XR
glimepiride-rosiglitazone	Avandaryl
glimepiride-pioglitazone	Duetact
metFORMIN-sitaGLIPTin	Janumet
metFORMIN-repaglinide	PrandiMet
metFORMIN-saxagliptin	Kombiglyze XR
simvastatin-sitaGLIPTin	Juvisync
sitaGLIPTin	Januvia
saxagliptin	Onglyza
linagliptin	Tradjenta
pramlintide	Symlin, SymlinPen 120, SymlinPen 60
exenatide	Byetta Prefilled Pen
liraglutide	Victoza

Medications variables were derived using Multum/Lexi-Comp® therapeutic drug categories.

**MDS subjects:** This variable is not available for MDS subjects as medication data were not collected before the introduction of the UDS.

37.	<b>Variable name</b>	<b>naccdage</b>
	<b>Short descriptor</b>	Derived age at death
	<b>Data type</b>	Numeric cross-sectional
	<b>Allowable codes</b>	15-120 888 = Not Applicable 999 = Unknown
	<b>Description/derivation</b>	<p><b>UDS subjects:</b> This variable is derived using data from both the Neuropathology (NP) and Milestones forms. For subjects for whom NP data is available, <b>naccdage=NPDAGE</b>. If NP data is not available, the date of death reported on the Milestones form is used. In the event that month of death is missing from the Milestones form, 7 (July) is imputed. In the event that day of death is missing from the Milestones form, 1 is imputed. Birth month and year are required elements in the UDS; however, birth day is not collected. To calculate naccdage, birth day is set to 1 for all subjects, and age at death is computed as death date – birth date.</p> <p>For subjects reported as deceased, but missing year of death on the Milestones form, naccdage=999. For subjects who are not known to be deceased, naccdage=888. Note that although this variable is listed for all visits, it does not change across visits; it is cross-sectional.</p> <p><b>MDS subjects:</b> For MDS subjects for whom a NP form is available, <b>naccdage=NPDAGE</b>. If no NP form is available, naccdage is computed using MDS death date – birth date. If birth month or death month is missing, 7 (July) is imputed. If last known vital status is “Dead” (VITALST=2), and birth year or death year are missing, naccdage=999.</p>

38.	<b>Variable name</b>	<b>naccint</b>
	<b>Short descriptor</b>	Time interval (days) between last visit and death
	<b>Data type</b>	Numeric cross-sectional
	<b>Allowable codes</b>	0–5000 8888 = Not Applicable 9999 = Unknown
	<b>Description/derivation</b>	<p><b>UDS subjects:</b> This variable is the calculated time interval (days) between the date of the subject's last UDS visit (either telephone or in-person) and their date of death. Death date is taken from the NP form when available, and otherwise from the Milestones form. The interval is then computed as death date – last visit date. In the event that a subject is known to be deceased, but day or month of death is missing from the Milestones form, or are inconsistent with the last known visit date, naccint=9999. For subjects who are not known to be deceased, naccint=8888. Note that although this variable is listed for all visits, it does not change across visits; it is cross-sectional.</p> <p><b>MDS subjects:</b> naccint is not calculated for MDS subjects because the MDS is not a longitudinal data set.</p>

39.	<b>Variable name</b>	<b>nacchiv</b>
	<b>Short descriptor</b>	HIV+ write-in on Form D1
	<b>Data type</b>	Numeric longitudinal
	<b>Allowable codes</b>	0 = No write-in of HIV 1 = Write-in indicating presence of HIV
	<b>Description/derivation</b>	<p><b>UDS subjects:</b> This variable is designed to flag subjects for whom a clinical diagnosis of “HIV”, or similar indicative text, was written-in on Form D1. Please note that this variable flags the presence of a write-in only, and not whether the condition was considered to contribute to cognitive impairment.</p> <p><b>MDS subjects:</b> <b>nacchiv</b> is not calculated for MDS subjects because the MDS did not have a write-in option for clinical diagnosis.</p>

40.	<b>Variable name</b>	<b>naccmnd</b>
	<b>Short descriptor</b>	Motor neuron disease write-in on Form D1
	<b>Data type</b>	Numeric longitudinal
	<b>Allowable codes</b>	0 = No write-in of ALS 1 = Write-in indicating presence of ALS
	<b>Description/derivation</b>	<p><b>UDS subjects:</b> This variable is designed to flag subjects for whom a clinical diagnosis of “motor neuron disease” (including “ALS” or similar indicative text), was written-in on Form D1. Please note that this variable flags the presence of a write-in only, and not whether the condition was considered to contribute to cognitive impairment.</p> <p><b>MDS subjects:</b> <b>naccmnd</b> is not calculated for MDS subjects because the MDS did not have a write-in option for clinical diagnosis.</p>

41.	<b>Variable name</b>	<b>naccpca</b>
	<b>Short descriptor</b>	Posterior cortical atrophy (PCA) write-in on Form D1
	<b>Data type</b>	Numeric longitudinal
	<b>Allowable codes</b>	0 = No write-in of PCA 1 = Write-in indicating presence of PCA
	<b>Description/derivation</b>	<p><b>UDS subjects:</b> This variable is designed to flag subjects for whom a clinical diagnosis of “PCA”, or similar indicative text, was written-in on Form D1. Please note that this variable flags the presence of a write-in only, and not whether the condition was considered to contribute to cognitive impairment.</p> <p><b>MDS subjects:</b> <b>naccpca</b> is not calculated for MDS subjects because the MDS did not have a write-in option for clinical diagnosis.</p>

42.	<b>Variable name</b>	<b>naccanc</b>
	<b>Short descriptor</b>	Cancer or tumor write-in on Form D1
	<b>Data type</b>	Numeric longitudinal
	<b>Allowable codes</b>	0 = No write-in of cancer 1 = Write-in indicating presence of cancer
	<b>Description/derivation</b>	<p><b>UDS subjects:</b> This variable is designed to flag subjects for whom a clinical diagnosis of “cancer”, or similar text indicative of a tumor or of cancer treatment, was written-in on Form D1. Malignant and benign tumors may be included, and the condition may not be active on that visit (e.g., may be in remission or post-treatment). Please note</p>

that this variable flags the presence of a write-in only, and not whether the condition was considered to contribute to cognitive impairment.

**MDS subjects:** naccanc is not calculated for MDS subjects because the MDS did not have a write-in option for clinical diagnosis.

43.	<b>Variable name</b>	<b>naccmdss</b>
	<b>Short descriptor</b>	Subject's status in the Minimal Data Set (MDS) and Uniform Data Set (UDS)
	<b>Data type</b>	Numeric cross-sectional
	<b>Allowable codes</b>	1 = In the UDS and MDS 2 = In the MDS Only 3 = In the UDS Only
	<b>Description/derivation</b>	<b>UDS and MDS subjects:</b> Data collection for the MDS ceased in 2005, at which point the UDS began. Thus, some subjects are included in both the MDS and the UDS. This variable is designed to identify subjects who started participation in the MDS and continued participation in the UDS, as well as participants who participated in the MDS only or who have participated in the UDS only. Note that although this variable is listed for all visits, it does not change across visits; it is cross-sectional.